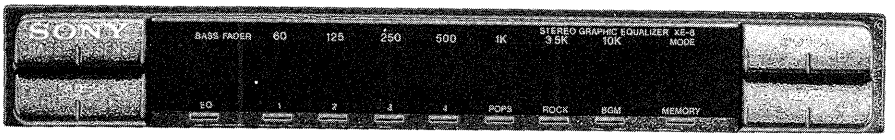
XE-8

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model



SPECIFICATIONS

Center frequencies
60 Hz, 125 Hz, 250 Hz,
500 Hz, 1 kHz, 3.5 kHz,
10 kHz
Boost/cut range ±12dB
Sub-woofer cut-off frequency
120 Hz, 250 Hz
(at −3 dB)
output gain
−∞ to +8 dB or more
cut off slope 12 dB/oct
Frequency response
10 Hz−50 kHz $^{+0}_{-3}$ dB
Signal-to-noise ratio
more than 95 dB
(A-weighted)
Harmonic distortion at 1 kHz
Less than 0.006%
Gain 0 dB

Others

Input Line input
(phono jack × 1)
Output Line output
(phono jack × 3)
Power requirements
12 V DC car battery
(negative ground)
Current drain 400 mA

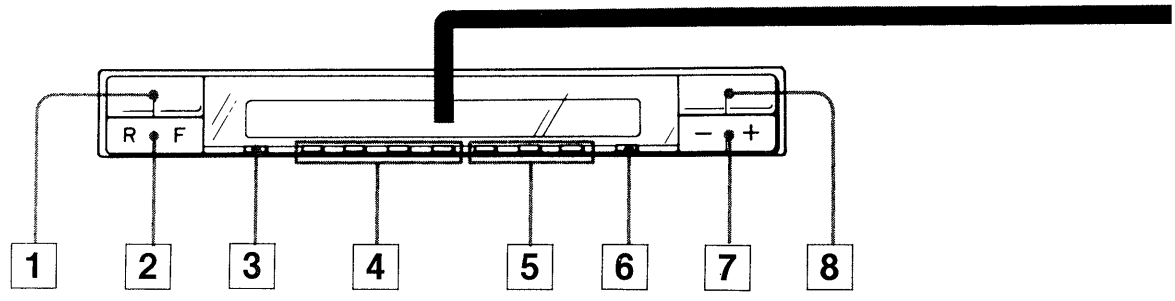
Mounting dimensions
Approx. 178 × 25 × 135 mm
(w/h/d)
(7 × 1 × 5⅜ inches)
Weight Approx. 0.8 kg (1 lb 13 oz)

STEREO GRAPHIC EQUALIZER

SONY®

SECTION 1
OUTLINE

1-1. LOCATION AND FUNCTION OF CONTROLS



1 BASS/SENS (sub-woofer cut-off/ spectrum analyzer sensitivity) button
BASS: to increase the bass parts
SENS: to change the extent of the spectrum analyzer indication

2 FADER button
Use to adjust the volume balance between the front and rear speakers.

3 EQ (equalizer) button
Selects the speaker output to be equalized. The EQ indicator is changed by pressing this button to F-R-FR-off. To deactivate the equalization, turn off the F and R indicators by pressing this button.

4 User's memory buttons
Press to memorize your original equalization curves or to recall the equalization curves memorized. These buttons also act as frequency band select buttons corresponding to the display indication.

5 Sony's fixed memory buttons
Recall the equalization curves memorized for each type of music: POPS, ROCK and BGM. These buttons also act as frequency band select buttons corresponding to the display indication.

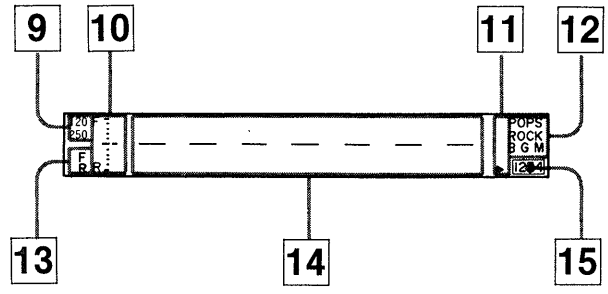
6 MEMORY button
Use to memorize your own equalization curves.

7 LEVEL button
Press the "+" or "–" when compensating each frequency band or when adjusting the bass parts.
+: to be strengthened
(to move the indicator to positive)
–: to be weakened
(to move the indicator to negative)

8 DISPLAY buttons
Select the type of indication in the display window.
A: changes to spectrum analyzer indication.
B: changes to equalizer indication.

Display window

The display changes as follows when the unit is operated.



9 Sub-woofer cut-off indicator
The cut-off frequency appears in this part.

10 FADER indicator

11 ▶ indicator
Shows the equalization curve which you have selected.

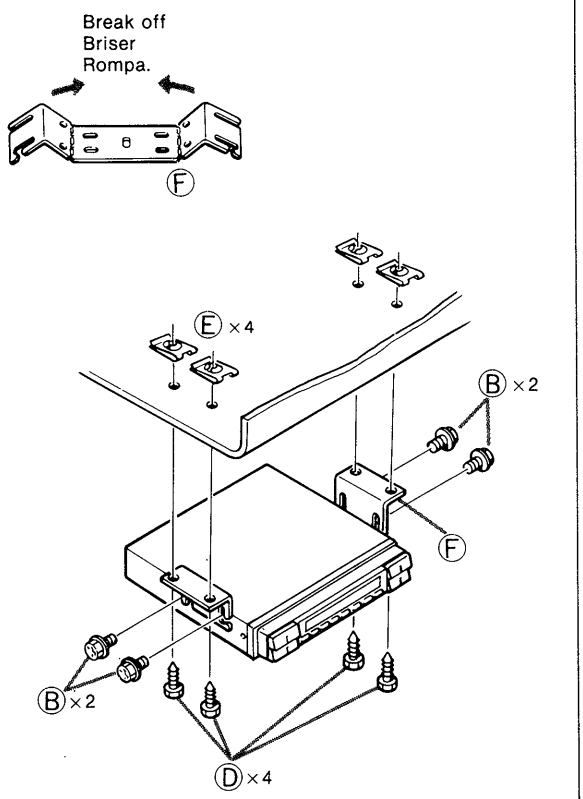
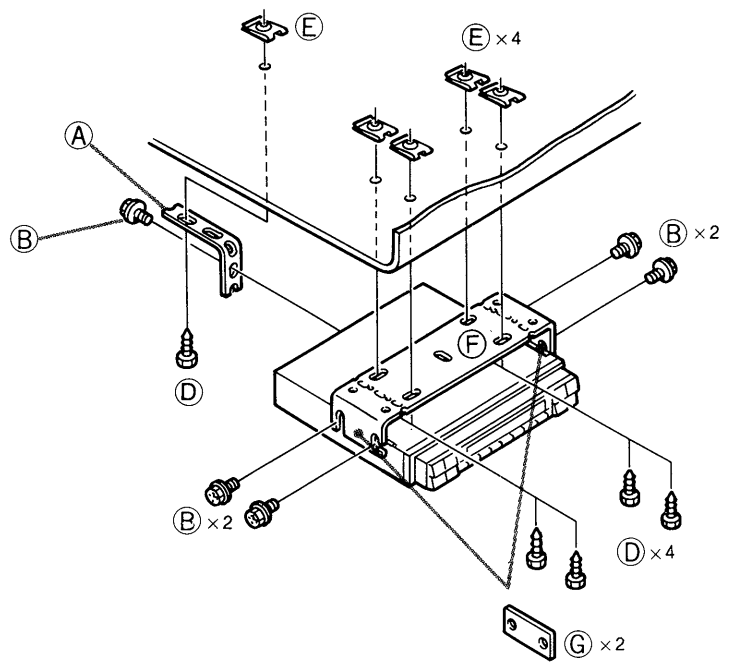
12 Sony's fixed memory indicator

13 EQ (equalization) indicator
Shows the speaker output to be equalized.
F: the sound from the front speakers
R: the sound from the rear speakers
FR: the sound from both front and rear speakers

14 Equalizer/analyzer display

15 User's memory number indicator

1-2. INSTALLATION
MOUNTING EXAMPLE

Example 1	Example 2
	

Use the supplied mounting hardware.

1 Mark the locations of the holes on the bottom of the dashboard using the part Ⓕ as a template.

2 Drill 3 mm ($^1/_8$ in.) bolt holes.

3 Secure the pieces of part Ⓕ which are broken off to the bottom of the dashboard*.

4 Secure the unit to part Ⓕ.

* If the dashboard or the firewall is thin or made of plastic or a similar material, secure the unit with tapping screws and tinnerman clips. If it is made of metal plate, the tinnerman clips are not necessary.

The unit can be installed inside the dashboard using an optional in-dash installation kit.

2-1. MOUNTING DIAGRAM – ANALOG SECTION –

SECTION 2 DIAGRAMS

【CONNECTOR (U) BOARD】

【ANALOG BOARD】

CNP950

REMOTE OUT
ILLMI
REMOTE IN
BACK UP
GND

L-CH
LINE IN
R-CH

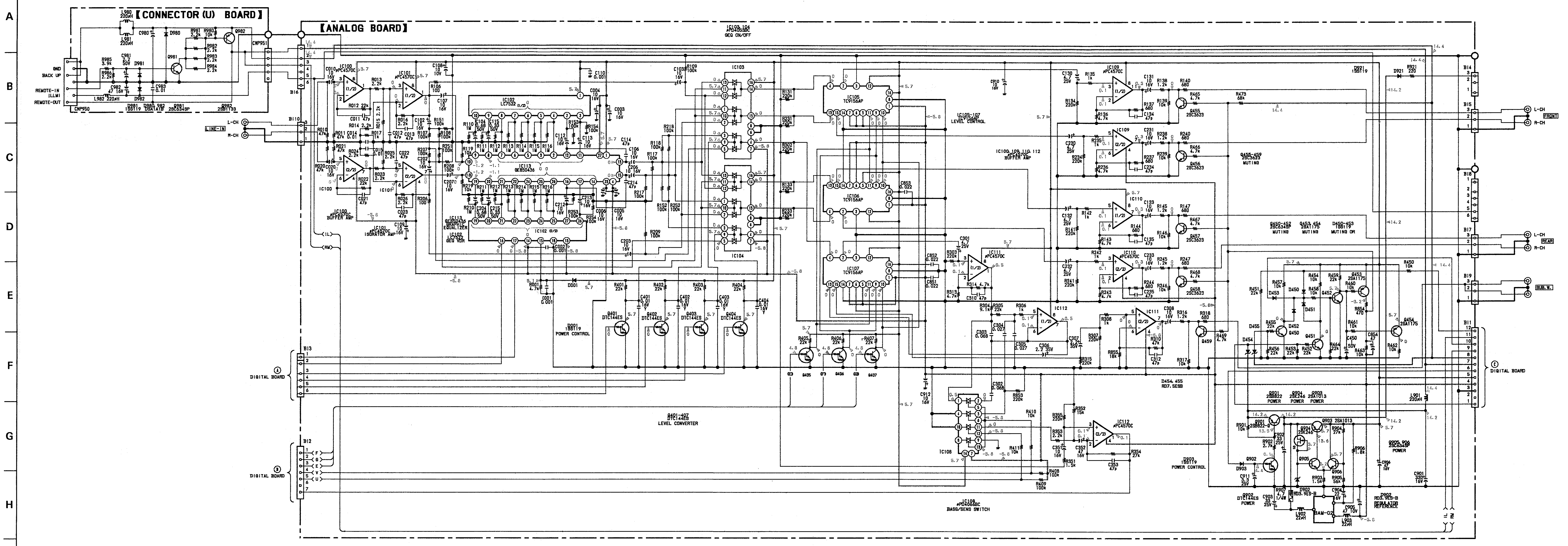
Ⓙ CONNECTOR
Ⓘ DIGITAL BOARD
Ⓖ DIGITAL BOARD
Ⓙ ANALOG BOARD
Ⓗ DIGITAL BOARD

L-CH
SUB.W.
R-CH

L-CH
REAR
R-CH

L-CH
FRONT
R-CH

2-2. SCHEMATIC DIAGRAM
– ANALOG SECTION –


【CONNECTOR (U) BOARD】
【ANALOG BOARD】
GND
BACK UP
REMOTE-IN
ILLMI
REMOTE-OUT
CNP950
CNP951
D981 1SS119
D980, 982 DSA1A1B
Q981 2SC634SP
Q982 2SB1133
LINE-IN
L-CH
R-CH
IC100 μPC4570C BUFFER AMP
IC101 μPC4570C ISOLATOR AMP
IC113 GE850436 GRAPHIC EQUALIZER
IC102 LC7522 GEQ VDR
IC103, 104 μPD4053BC GEQ ON/OFF
IC105–107 TC9156AP LEVEL CONTROL
IC100, 109, 110, 112 μPC4570C BUFFER AMP
Q455–459 2SC3623 MUTING
Q450–452 2SC634SP MUTING
Q453, 454 2SA1175 MUTING
D450–453 1SS119 MUTING OR
D001 1SS119 POWER CONTROL
Q401–407 DTC144ES LEVEL CONVERTER
IC108 μPD4066BC BASS/SENS SWITCH
D454, 455 RD7.5ESB
Q901 2SB822 POWER
Q904 2SK246 POWER
Q903 2SA1013 POWER
Q905, 906 2SC634SP POWER
D903 1SS119 POWER CONTROL
Q902 DTC144ES POWER
D902 RD3.9ES-B REGULATOR REFERENCE
DIGITAL BOARD
FRONT
REAR
SUB. W.

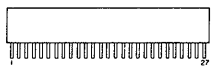
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^1/_4$ W or less unless otherwise specified.

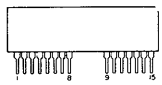
- : B+ bus.
- : B– bus.
- ☐ : adjustment for repair.
- Waveforms are taken to ground in no-signal mode by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.

Semiconductors Lead Layout

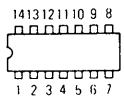
GE850436



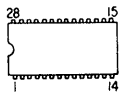
AFM02F



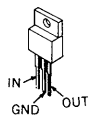
HD14066BP
MB84066B
μPD4066BC



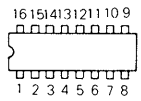
LC7522



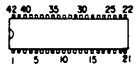
L78M05
NJM78M05A
μPC78M05H



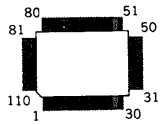
MB84053B
TC9156AP
μPD4053BC



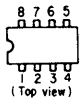
MB88516B-27



MSM5265GS-K



NJM4562D
μPC570C
μPC4570HA

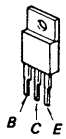


DTA144ES
DTC144ES
DTC144WS
2SC634SP
2SA1048
2SA1115
2SC1740S
2SC2458
2SC2603

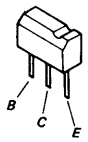
2SA933S

2SA1013

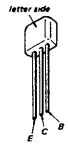
2SB1133R



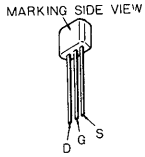
2SB822



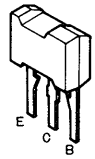
2SA1175
2SC2785



2SC3623

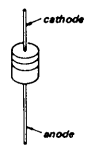


2SC3668-Y

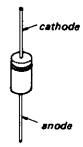


2SK246

HZS3.0N
HZS3.9N
HZS4.7N
HZS5.6NB2
HZS7.5N
HZS9.1NB2
RD3.9ESB1
RD4.7ES
RD4.7ESB
RD5.6ESB2
RD7.5ES
RD7.5ESB
1SS119
1SS133
1SS148

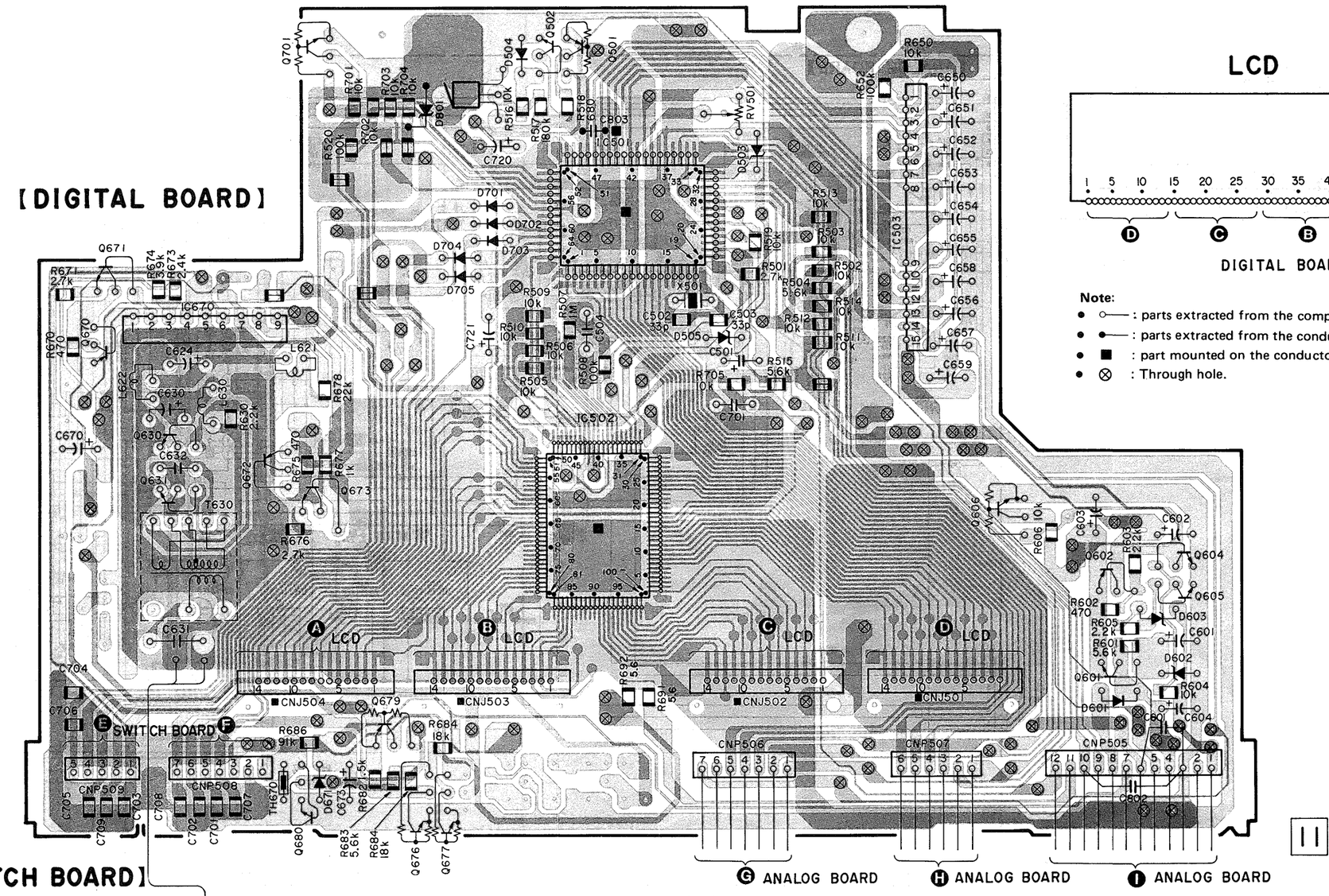


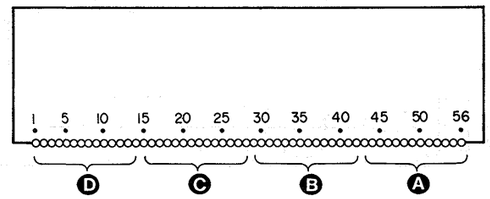
RD3.0ES
RD9.1ESB2



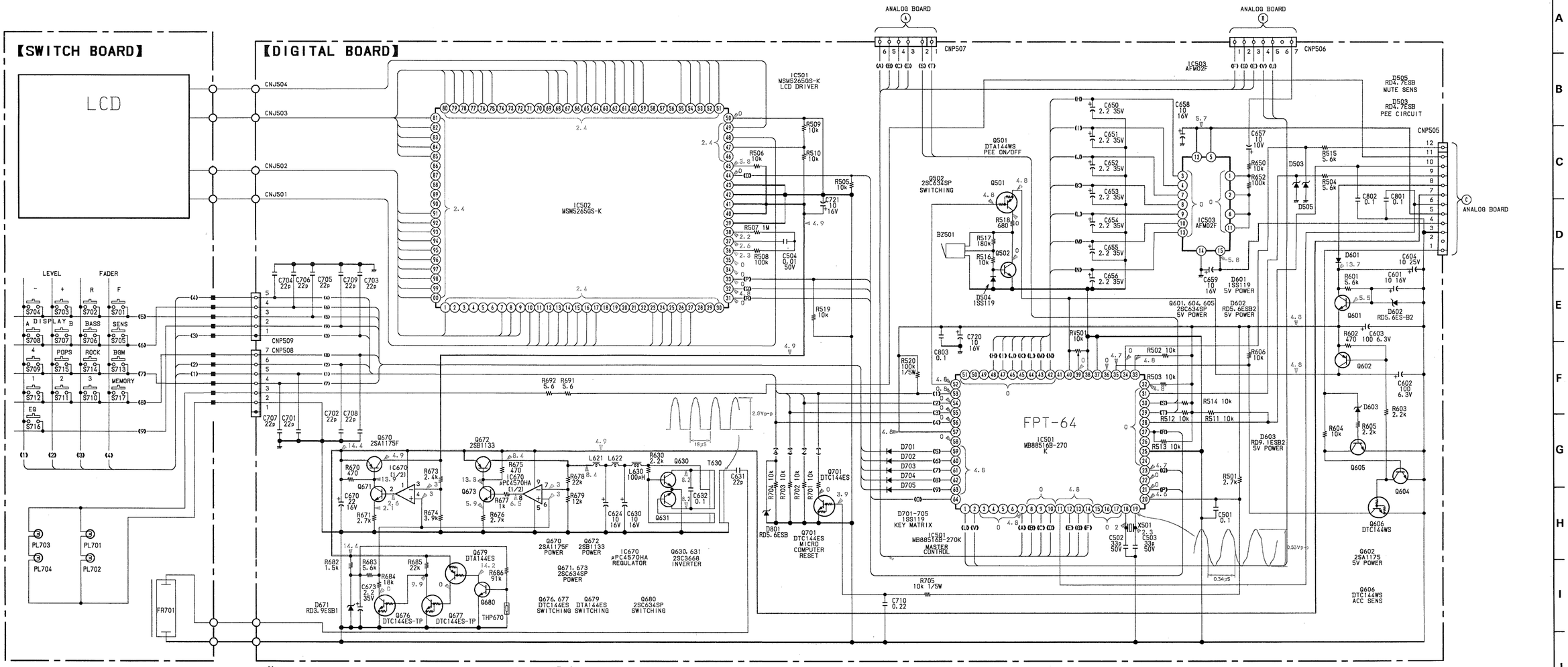
2-3. MOUNTING DIAGRAM
– DIGITAL SECTION –

[DIGITAL BOARD]





Note:
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⊗ : Through hole.



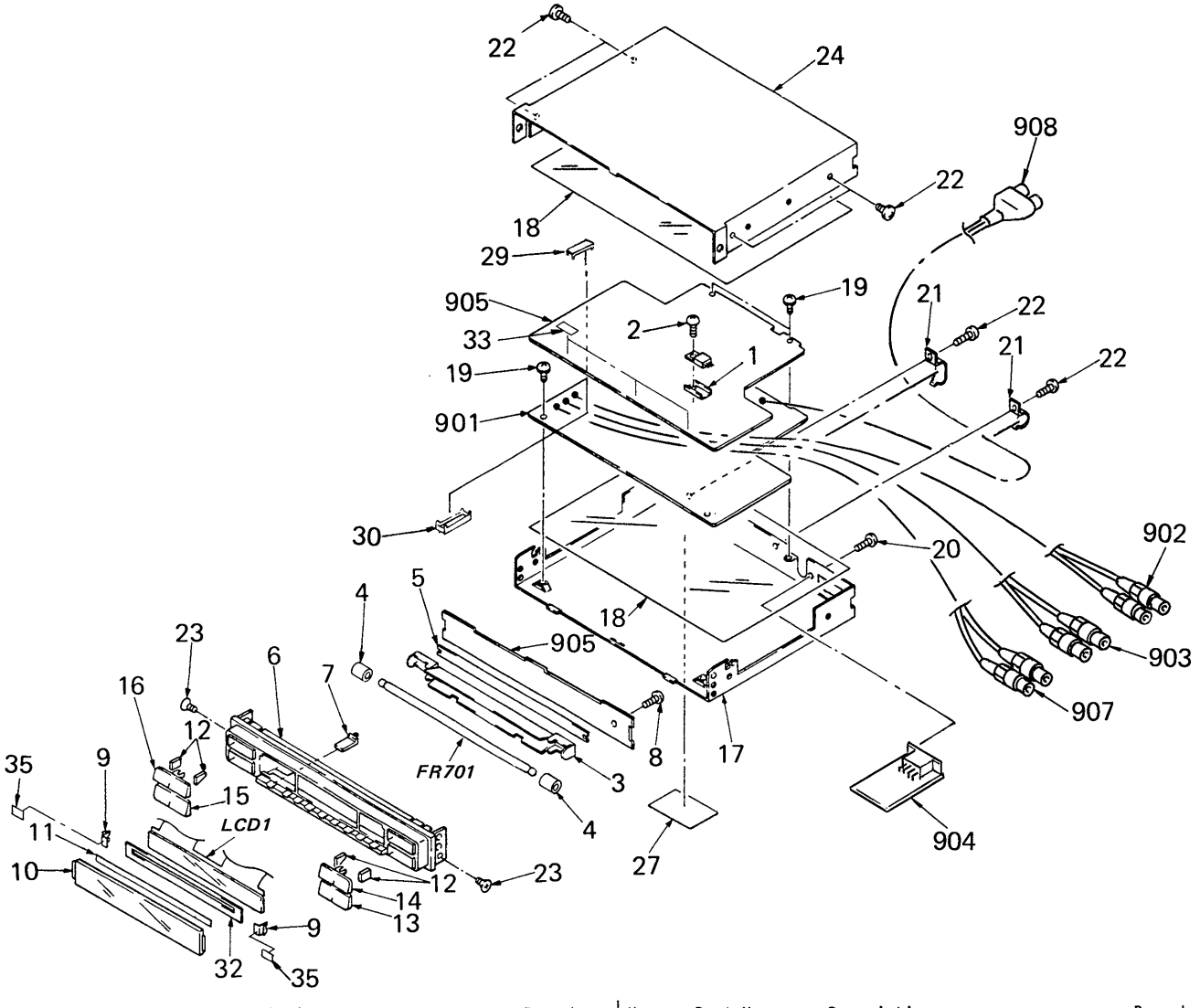
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.

⊖ ═══ : B+ bus.
⊖ ═══ : B– bus.
⊖ ▭ : adjustment for repair.
⊖ Waveforms are taken to ground in no-signal mode by using oscilloscope.
Voltage variations may be noted due to normal production tolerances.

SECTION 3
EXPLODED VIEW AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts
  Example: (RED) ..... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color



No.	Part No.	Description	Remarks
1	*3-339-932-01	STOPPER	
2	7-682-546-09	SCREW +B 3X5	
3	3-339-907-01	REFLECTOR	
4	*3-339-925-01	TUBE, PROTECTION	
5	*3-339-909-01	INSULATOR	
6	3-339-916-01	PIECE, NOSE	
7	3-339-905-01	BUTTON, EQ	
8	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
9	*3-339-930-01	BRACKET, LCD	
10	3-339-906-01	PLATE, TRANSPARENT	
11	3-339-908-01	SHEET, ADHESIVE	
12	3-339-904-01	SLIDER	
13	3-339-911-01	KNOB, UP/DOWN	
14	3-339-913-01	KNOB, DSPL/MEM	
15	3-339-912-01	KNOB, FADER	
16	3-339-910-01	KNOB, BASS/SENS	
17	*3-339-926-01	CHASSIS	
18	*3-339-923-01	SHEET, INSULATING	
19	7-621-775-08	SCREW +B 2.6X4	
20	7-685-134-19	SCREW +B 2.6X8	

No.	Part No.	Description	Remarks
21	*3-339-933-01	RETAINER, CORD	
22	7-682-544-09	SCREW +B 3X3	
23	7-621-559-20	SCREW +K 2.6X4	
24	*3-339-915-01	COVER	
27	3-339-919-01	(Canadian)...LABEL, MODEL NUMBER	
	*3-339-918-01	(US,E).....LABEL, MODEL NUMBER	
29	*3-339-928-01	CASE (UPPER), SHIELD	
30	*3-339-929-01	CASE (LOWER), SHIELD	
32	3-339-924-01	PLATE, GROUND	
33	3-703-929-01	SPACER (C)	
35	3-831-441-XX	CUSHION	
901	*A-3270-404-A	MOUNTED PCB, AUDIO	
902	*1-559-333-11	CORD (WITH JACK)	
903	*1-559-332-11	CORD (WITH JACK)	
904	*1-622-331-12	PC BOARD, CONNECTOR (USA)	
905	*A-3270-407-A	MOUNTED PCB, DIGITAL	
907	*1-559-334-11	CORD (WITH JACK)	
908	*1-559-337-11	CORD (WITH JACK) (INPUT)	
FR701	1-518-622-11	LAMP, FLUORESCENT	
LCD1	1-807-768-11	DISPLAY PANEL, LIQUID CRYSTAL	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*A-3270-404-A	MOUNTED PCB, AUDIO			
902	*1-559-333-11	CORD (WITH JACK)			
903	*1-559-332-11	CORD (WITH JACK)			
904	*1-622-331-11	PC BOARD, CONNECTOR (USA)			
905	*A-3270-407-A	MOUNTED PCB, DIGITAL			
906	*1-622-333-11	PC BOARD, SWITCH			
907	*1-559-334-11	CORD (WITH JACK)			
908	*1-559-337-11	CORD (WITH JACK) (INPUT)			
BAM02	A-3215-906-A	BATTERY MIRROR			
BZ501	1-529-014-00	BUZZER, PIEZOELECTRIC			
C001	1-163-205-00	CERAMIC	0.001MF	10%	50V
C002	1-163-205-00	CERAMIC	0.001MF	10%	50V
C003	1-124-462-00	ELECT	10MF	20%	16V
C004	1-124-462-00	ELECT	10MF	20%	16V
C005	1-124-462-00	ELECT	10MF	20%	16V
C006	1-124-462-00	ELECT	10MF	20%	16V
C010	1-124-462-00	ELECT	10MF	20%	16V
C011	1-162-215-31	CERAMIC	47PF	5%	50V
C012	1-162-215-31	CERAMIC	47PF	5%	50V
C013	1-162-215-31	CERAMIC	47PF	5%	50V
C014	1-163-059-00	CERAMIC	0.01MF	30%	16V
C015	1-163-059-00	CERAMIC	0.01MF	30%	16V
C020	1-124-462-00	ELECT	10MF	20%	16V
C021	1-162-215-31	CERAMIC	47PF	5%	50V
C022	1-162-215-31	CERAMIC	47PF	5%	50V
C023	1-162-215-31	CERAMIC	47PF	5%	50V
C102	1-124-462-00	ELECT	10MF	20%	16V
C103	1-124-462-00	ELECT	10MF	20%	16V
C104	1-124-254-00	ELECT	0.68MF	20%	50V
C106	1-124-462-00	ELECT	10MF	20%	16V
C107	1-124-462-00	ELECT	10MF	20%	16V
C108	1-124-462-00	ELECT	10MF	20%	10V
C109	1-124-462-00	ELECT	10MF	20%	16V
C110	1-163-205-00	CERAMIC	0.001MF	10%	50V
C112	1-124-462-00	ELECT	10MF	20%	16V
C113	1-124-462-00	ELECT	10MF	20%	16V
C114	1-162-215-31	CERAMIC	47PF	5%	50V
C115	1-124-252-00	ELECT	0.33MF	20%	50V
C130	1-124-238-91	ELECT	4.7MF	20%	25V
C131	1-124-462-00	ELECT	10MF	20%	16V
C132	1-124-238-91	ELECT	4.7MF	20%	25V
C133	1-124-462-00	ELECT	10MF	20%	16V
C134	1-162-215-31	CERAMIC	47PF	5%	50V
C135	1-162-215-31	CERAMIC	47PF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C202	1-124-462-00	ELECT	10MF	20%	16V
C203	1-124-462-00	ELECT	10MF	20%	16V
C204	1-124-254-00	ELECT	0.68MF	20%	50V
C206	1-124-462-00	ELECT	10MF	20%	16V
C207	1-124-462-00	ELECT	10MF	20%	16V
C212	1-124-462-00	ELECT	10MF	20%	16V
C213	1-124-462-00	ELECT	10MF	20%	16V
C214	1-162-215-31	CERAMIC	47PF	5%	50V
C215	1-124-252-00	ELECT	0.33MF	20%	50V
C230	1-124-238-91	ELECT	4.7MF	20%	25V
C231	1-124-462-00	ELECT	10MF	20%	16V
C232	1-124-238-91	ELECT	4.7MF	20%	25V
C233	1-124-462-00	ELECT	10MF	20%	16V
C234	1-162-215-31	CERAMIC	47PF	5%	50V
C235	1-162-215-31	CERAMIC	47PF	5%	50V
C301	1-124-238-91	ELECT	4.7MF	20%	25V
C302	1-136-163-00	FILM	0.068MF	5%	50V
C303	1-136-163-00	FILM	0.068MF	5%	50V
C304	1-130-488-00	MYLAR	0.027MF	5%	50V
C305	1-130-488-00	MYLAR	0.027MF	5%	50V
C306	1-124-257-00	ELECT	2.2MF	20%	35V
C307	1-124-257-00	ELECT	2.2MF	20%	35V
C308	1-124-462-00	ELECT	10MF	20%	16V
C310	1-162-215-31	CERAMIC	47PF	5%	50V
C312	1-162-215-31	CERAMIC	47PF	5%	50V
C351	1-124-462-00	ELECT	10MF	20%	16V
C352	1-124-236-00	ELECT	47MF	20%	16V
C353	1-162-215-31	CERAMIC	47PF	5%	50V
C401	1-163-059-00	CERAMIC	0.01MF	30%	16V
C402	1-163-059-00	CERAMIC	0.01MF	30%	16V
C403	1-163-059-00	CERAMIC	0.01MF	30%	16V
C404	1-163-059-00	CERAMIC	0.01MF	30%	16V
C450	1-124-255-00	ELECT	1MF	20%	50V
C501	1-130-768-00	FILM	0.1MF	10%	63V
C502	1-163-169-00	CERAMIC	33PF	5%	50V
C503	1-163-169-00	CERAMIC	33PF	5%	50V
C504	1-130-483-00	MYLAR	0.01MF	5%	50V
C601	1-124-462-00	ELECT	10MF	20%	16V
C602	1-124-225-00	ELECT	100MF	20%	6.3V
C603	1-124-225-00	ELECT	100MF	20%	6.3V
C604	1-124-240-00	ELECT	10MF	20%	25V
C624	1-124-462-00	ELECT	10MF	20%	16V
C630	1-124-462-00	ELECT	10MF	20%	16V
C631	1-162-980-11	CERAMIC	22PF	5%	2KV
C632	1-130-768-00	FILM	0.1MF	10%	63V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C650	1-124-257-00	ELECT	2.2MF	20%	35V
C651	1-124-257-00	ELECT	2.2MF	20%	35V
C652	1-124-257-00	ELECT	2.2MF	20%	35V
C653	1-124-257-00	ELECT	2.2MF	20%	35V
C654	1-124-257-00	ELECT	2.2MF	20%	35V
C655	1-124-257-00	ELECT	2.2MF	20%	35V
C656	1-124-257-00	ELECT	2.2MF	20%	35V
C657	1-124-462-00	ELECT	10MF	20%	10V
C658	1-124-462-00	ELECT	10MF	20%	16V
C659	1-124-462-00	ELECT	10MF	20%	16V
C670	1-124-234-00	ELECT	22MF	20%	16V
C673	1-124-257-00	ELECT	2.2MF	20%	35V
C701	1-163-165-00	CERAMIC	22PF	5%	50V
C702	1-163-165-00	CERAMIC	22PF	5%	50V
C703	1-163-165-00	CERAMIC	22PF	5%	50V
C704	1-163-165-00	CERAMIC	22PF	5%	50V
C705	1-163-165-00	CERAMIC	22PF	5%	50V
C706	1-163-165-00	CERAMIC	22PF	5%	50V
C707	1-163-165-00	CERAMIC	22PF	5%	50V
C708	1-163-165-00	CERAMIC	22PF	5%	50V
C709	1-163-165-00	CERAMIC	22PF	5%	50V
C710	1-130-772-00	FILM	0.22MF	5%	50V
C720	1-124-462-00	ELECT	10MF	20%	16V
C721	1-124-462-00	ELECT	10MF	20%	16V
C801	1-130-768-00	FILM	0.1MF	5%	63V
C802	1-130-768-00	FILM	0.1MF	5%	63V
C803	1-136-165-00	FILM	0.1MF	5%	50V
C851	1-161-494-00	CERAMIC	0.022MF		25V
C852	1-161-494-00	CERAMIC	0.022MF		25V
C853	1-161-494-00	CERAMIC	0.022MF		25V
C854	1-124-236-00	ELECT	47MF	20%	16V
C901	1-123-322-00	ELECT	330MF	20%	16V
C902	1-124-242-00	ELECT	33MF	20%	25V
C903	1-124-242-00	ELECT	33MF	20%	25V
C904	1-124-234-00	ELECT	22MF	20%	16V
C905	1-124-236-00	ELECT	47MF	20%	10V
C906	1-124-236-00	ELECT	47MF	20%	16V
C910	1-124-462-00	ELECT	10MF	20%	16V
C911	1-124-258-00	ELECT	3.3MF	20%	25V
C912	1-124-462-00	ELECT	10MF	20%	16V
C950	1-101-005-00	CERAMIC	0.022MF		50V
C980	1-124-120-11	ELECT	220MF	20%	16V
C981	1-124-257-00	ELECT	2.2MF	20%	50V
C982	1-124-236-00	ELECT	47MF	20%	16V
C983	1-163-059-00	CERAMIC	0.01MF	20%	16V
CNJ501*1-563-953-11		HOUSING, CONNECTOR 14P			
CNJ502*1-563-953-11		HOUSING, CONNECTOR 14P			
CNJ503*1-563-953-11		HOUSING, CONNECTOR 14P			
CNJ504*1-563-953-11		HOUSING, CONNECTOR 14P			
CNP505*1-564-022-00		PIN, CONNECTOR 12P			
CNP506 1-564-017-00		PIN, CONNECTOR 7P			
CNP507 1-564-016-00		PIN, CONNECTOR 6P			
CNP508 1-564-017-00		PIN, CONNECTOR 7P			
CNP509*1-564-015-00		PIN, CONNECTOR 5P			
CNP950 1-566-458-11		CONNECTOR 7P			
CNP951*1-564-004-00		PIN, CONNECTOR 5P			
D001	8-719-911-19	DIODE 1SS119			
D450	8-719-911-19	DIODE 1SS119			
D451	8-719-911-19	DIODE 1SS119			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
D452	8-719-911-19	DIODE 1SS119			
D453	8-719-911-19	DIODE 1SS119			
D454	8-719-109-99	DIODE RD7.5ESB			
D455	8-719-109-99	DIODE RD7.5ESB			
D503	8-719-109-79	DIODE RD4.7ES-B			
D504	8-719-911-19	DIODE 1SS119			
D505	8-719-109-79	DIODE RD4.7ES-B			
D601	8-719-911-19	DIODE 1SS119			
D602	8-719-109-89	DIODE RD5.6ES-B2			
D603	8-719-110-13	DIODE RD9.1ES-B2			
D671	8-719-109-71	DIODE RD3.9ES-B1			
D701	8-719-911-19	DIODE 1SS119			
D702	8-719-911-19	DIODE 1SS119			
D703	8-719-911-19	DIODE 1SS119			
D704	8-719-911-19	DIODE 1SS119			
D705	8-719-911-19	DIODE 1SS119			
D801	8-719-109-87	DIODE RD5.6ES-B			
D902	8-719-109-71	DIODE RD3.9ES-B			
D903	8-719-911-19	DIODE 1SS119			
D921	8-719-911-19	DIODE 1SS119			
D980	8-719-928-25	DIODE DSA1A1			
D981	8-719-911-19	DIODE 1SS119			
D982	8-719-928-26	DIODE DSA1A2			
FR701	1-518-622-11	LAMP, FLUORESCENT			
IC100	8-759-106-41	IC UPC4570C			
IC101	8-759-106-41	IC UPC4570C			
IC102	8-759-804-49	IC LC7522			
IC103	8-759-140-53	IC UPD4053BC			
IC104	8-759-140-53	IC UPD4053BC			
IC105	8-759-208-68	IC TC9156AP			
IC106	8-759-208-68	IC TC9156AP			
IC107	8-759-208-68	IC TC9156AP			
IC108	8-759-106-23	IC UPD4066BG			
IC109	8-759-106-41	IC UPC4570C			
IC110	8-759-106-41	IC UPC4570C			
IC111	8-759-106-41	IC UPC4570C			
IC112	8-759-106-41	IC UPC4570C			
IC113	1-807-891-11	IC GE65062A			
IC501	8-759-941-16	IC MB88516B-270K			
IC502	8-759-941-24	IC MSM5265GS-K			
IC503	1-807-817-11	IC AFM02F			
IC670	8-759-106-61	IC UPC4570HA			
JW101	1-249-366-11	CARBON MELF	0	5%	1/5W
JW102	1-249-366-11	CARBON MELF	0	5%	1/5W
JW103	1-249-366-11	CARBON MELF	0	5%	1/5W
JW104	1-249-366-11	CARBON MELF	0	5%	1/5W
JW105	1-249-366-11	CARBON MELF	0	5%	1/5W
JW501	1-249-366-11	CARBON MELF	0	5%	1/5W
JW503	1-249-366-11	CARBON MELF	0	5%	1/5W
JW504	1-249-366-11	CARBON MELF	0	5%	1/5W
JW505	1-249-366-11	CARBON MELF	0	5%	1/5W
JW507	1-249-366-11	CARBON MELF	0	5%	1/5W
JW509	1-249-366-11	CARBON MELF	0	5%	1/5W
JW510	1-249-366-11	CARBON MELF	0	5%	1/5W
JW980	1-249-366-11	CARBON MELF	0	5%	1/5W
JW981	1-249-366-11	CARBON MELF	0	5%	1/5W
JW982	1-249-366-11	CARBON MELF	0	5%	1/5W
JW984	1-249-366-11	CARBON MELF	0	5%	1/5W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L621	1-421-635-00	COIL, CHOKE 22UH
L622	1-421-635-00	COIL, CHOKE 22UH
L630	1-421-967-11	COIL, CHOKE 100UH
L901	1-421-964-11	COIL, CHOKE 220UH
L902	1-421-635-00	COIL, CHOKE 22UH
L903	1-421-635-00	COIL, CHOKE 22UH
L980	1-421-976-11	COIL, CHOKE 220UH
L981	1-421-976-11	COIL, CHOKE 220UH
L982	1-421-976-11	COIL, CHOKE 220UH
LCD1	1-807-768-11	DISPLAY PANEL, LIQUID CRYSTAL
PL701	1-518-626-11	LAMP, PILOT
PL702	1-518-626-11	LAMP, PILOT
PL703	1-518-626-11	LAMP, PILOT
PL704	1-518-626-11	LAMP, PILOT
Q401	8-729-900-89	TRANSISTOR DTC144ES
Q402	8-729-900-89	TRANSISTOR DTC144ES
Q403	8-729-900-89	TRANSISTOR DTC144ES
Q404	8-729-900-89	TRANSISTOR DTC144ES
Q405	8-729-900-89	TRANSISTOR DTC144ES
Q406	8-729-900-89	TRANSISTOR DTC144ES
Q407	8-729-900-89	TRANSISTOR DTC144ES
Q450	8-729-600-27	TRANSISTOR 2SC634SP
Q451	8-729-600-27	TRANSISTOR 2SC634SP
Q452	8-729-600-27	TRANSISTOR 2SC634SP
Q453	8-729-117-54	TRANSISTOR 2SA1175
Q454	8-729-117-54	TRANSISTOR 2SA1175
Q455	8-729-107-77	TRANSISTOR 2SC3623-L
Q456	8-729-107-77	TRANSISTOR 2SC3623-L
Q457	8-729-107-77	TRANSISTOR 2SC3623-L
Q458	8-729-107-77	TRANSISTOR 2SC3623-L
Q459	8-729-107-77	TRANSISTOR 2SC3623-L
Q501	8-729-900-85	TRANSISTOR DTA144WS
Q502	8-729-600-27	TRANSISTOR 2SC634SP
Q601	8-729-600-27	TRANSISTOR 2SC634SP
Q602	8-729-117-54	TRANSISTOR 2SA1175
Q604	8-729-600-27	TRANSISTOR 2SC634SP
Q605	8-729-600-27	TRANSISTOR 2SC634SP
Q606	8-729-900-85	TRANSISTOR DTC144WS
Q630	8-729-205-96	TRANSISTOR 2SC3668
Q631	8-729-205-96	TRANSISTOR 2SC3668
Q670	8-729-117-54	TRANSISTOR 2SA1175
Q671	8-729-600-27	TRANSISTOR 2SC634SP
Q672	8-729-804-67	TRANSISTOR 2SB1133-R
Q673	8-729-600-27	TRANSISTOR 2SC634SP
Q676	8-729-900-89	TRANSISTOR DTC144ES
Q677	8-729-900-89	TRANSISTOR DTC144ES
Q679	8-729-900-89	TRANSISTOR DTA144ES
Q680	8-729-600-27	TRANSISTOR 2SC634SP
Q701	8-729-900-89	TRANSISTOR DTC144ES
Q901	8-729-982-22	TRANSISTOR 2SB822
Q902	8-729-900-89	TRANSISTOR DTC144ES
Q903	8-729-201-32	TRANSISTOR 2SA1013
Q904	8-729-224-62	TRANSISTOR 2SK246-GR
Q905	8-729-600-27	TRANSISTOR 2SC634SP
Q906	8-729-600-27	TRANSISTOR 2SC634SP
Q981	8-729-600-27	TRANSISTOR 2SC634SP
Q982	8-729-804-67	TRANSISTOR 2SB1133-R

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R001	1-249-425-11	CARBON	4.7K	5%	1/6W
R010	1-249-437-11	CARBON	47K	5%	1/6W
R011	1-249-437-11	CARBON	47K	5%	1/6W
R012	1-249-433-11	CARBON	22K	5%	1/6W
R013	1-249-421-11	CARBON	2.2K	5%	1/6W
R014	1-249-421-11	CARBON	2.2K	5%	1/6W
R015	1-249-421-11	CARBON	2.2K	5%	1/6W
R016	1-249-421-11	CARBON	2.2K	5%	1/6W
R017	1-249-405-11	CARBON	100	5%	1/6W
R020	1-249-437-11	CARBON	47K	5%	1/6W
R021	1-249-437-11	CARBON	47K	5%	1/6W
R022	1-249-433-11	CARBON	22K	5%	1/6W
R023	1-249-421-11	CARBON	2.2K	5%	1/6W
R024	1-249-421-11	CARBON	2.2K	5%	1/6W
R025	1-249-421-11	CARBON	2.2K	5%	1/6W
R026	1-249-421-11	CARBON	2.2K	5%	1/6W
R106	1-249-405-11	CARBON	100	5%	1/6W
R107	1-249-441-11	CARBON	100K	5%	1/6W
R108	1-249-441-11	CARBON	100K	5%	1/6W
R109	1-249-441-11	CARBON	100K	5%	1/6W
R110	1-215-493-00	CARBON	1M	5%	1/6W
R111	1-215-493-00	CARBON	1M	5%	1/6W
R112	1-215-493-00	CARBON	1M	5%	1/6W
R113	1-215-493-00	CARBON	1M	5%	1/6W
R114	1-215-493-00	CARBON	1M	5%	1/6W
R115	1-215-493-00	CARBON	1M	5%	1/6W
R116	1-215-493-00	CARBON	1M	5%	1/6W
R117	1-249-441-11	CARBON	100K	5%	1/6W
R118	1-249-441-11	CARBON	100K	5%	1/6W
R119	1-249-429-11	CARBON	10K	5%	1/6W
R131	1-215-477-00	CARBON	220K	5%	1/6W
R133	1-215-477-00	CARBON	220K	5%	1/6W
R134	1-215-477-00	CARBON	220K	5%	1/6W
R135	1-249-417-11	CARBON	1K	5%	1/6W
R136	1-249-425-11	CARBON	4.7K	5%	1/6W
R137	1-249-035-00	CARBON MELF	680	5%	1/5W
R138	1-249-038-00	CARBON MELF	1.2K	5%	1/5W
R139	1-249-429-11	CARBON	10K	5%	1/6W
R140	1-249-035-00	CARBON MELF	680	5%	1/5W
R141	1-215-477-00	CARBON	220K	5%	1/6W
R142	1-249-417-11	CARBON	1K	5%	1/6W
R143	1-249-425-11	CARBON	4.7K	5%	1/6W
R144	1-249-035-00	CARBON MELF	680	5%	1/5W
R145	1-249-038-00	CARBON MELF	1.2K	5%	1/5W
R146	1-249-429-11	CARBON	10K	5%	1/6W
R147	1-249-035-00	CARBON MELF	680	5%	1/5W
R151	1-249-441-11	CARBON	100K	5%	1/6W
R152	1-249-441-11	CARBON	100K	5%	1/6W
R153	1-249-441-11	CARBON	100K	5%	1/6W
R154	1-249-441-11	CARBON	100K	5%	1/6W
R206	1-249-405-11	CARBON	100	5%	1/6W
R207	1-249-441-11	CARBON	100K	5%	1/6W
R208	1-249-441-11	CARBON	100K	5%	1/6W
R209	1-249-441-11	CARBON	100K	5%	1/6W
R210	1-215-493-00	CARBON	1M	5%	1/6W
R211	1-215-493-00	CARBON	1M	5%	1/6W
R212	1-215-493-00	CARBON	1M	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R213	1-215-493-00	CARBON	1M	5%	1/6W
R214	1-215-493-00	CARBON	1M	5%	1/6W
R215	1-215-493-00	CARBON	1M	5%	1/6W
R216	1-215-493-00	CARBON	1M	5%	1/6W
R217	1-249-441-11	CARBON	100K	5%	1/6W
R218	1-249-441-11	CARBON	100K	5%	1/6W
R219	1-249-429-11	CARBON	10K	5%	1/6W
R231	1-215-477-00	CARBON	220K	5%	1/6W
R233	1-215-477-00	CARBON	220K	5%	1/6W
R234	1-215-477-00	CARBON	220K	5%	1/6W
R235	1-249-417-11	CARBON	1K	5%	1/6W
R236	1-249-425-11	CARBON	4.7K	5%	1/6W
R237	1-249-035-00	CARBON MELF	680	5%	1/5W
R238	1-249-038-00	CARBON MELF	1.2K	5%	1/5W
R239	1-249-429-11	CARBON	10K	5%	1/6W
R240	1-249-035-00	CARBON MELF	680	5%	1/5W
R241	1-215-477-00	CARBON	220K	5%	1/6W
R242	1-249-417-11	CARBON	1K	5%	1/6W
R243	1-249-425-11	CARBON MELF	4.7K	5%	1/6W
R244	1-249-035-00	CARBON MELF	680	5%	1/5W
R245	1-249-038-00	CARBON	1.2K	5%	1/5W
R246	1-249-429-11	CARBON	10K	5%	1/6W
R247	1-249-035-00	CARBON MELF	680	5%	1/5W
R251	1-249-441-11	CARBON	100K	5%	1/6W
R252	1-249-441-11	CARBON	100K	5%	1/6W
R253	1-249-441-11	CARBON	100K	5%	1/6W
R254	1-249-441-11	CARBON	100K	5%	1/6W
R302	1-215-477-00	CARBON	220K	5%	1/6W
R303	1-215-477-00	CARBON	220K	5%	1/6W
R304	1-215-444-00	CARBON	9.1K	5%	1/6W
R305	1-249-433-11	CARBON	22K	5%	1/6W
R306	1-249-417-11	CARBON	1K	5%	1/6W
R307	1-215-477-00	CARBON	220K	5%	1/6W
R308	1-249-417-11	CARBON	1K	5%	1/6W
R310	1-249-437-11	CARBON	47K	5%	1/6W
R313	1-249-425-11	CARBON	4.7K	5%	1/6W
R314	1-249-425-11	CARBON	4.7K	5%	1/6W
R315	1-215-477-00	CARBON	220K	5%	1/6W
R316	1-249-038-00	CARBON MELF	1.2K	5%	1/5W
R317	1-249-429-11	CARBON	10K	5%	1/6W
R318	1-249-035-00	CARBON MELF	680	5%	1/5W
R351	1-249-419-11	CARBON	1.5K	5%	1/6W
R352	1-249-431-11	CARBON	15K	5%	1/6W
R353	1-249-421-11	CARBON	2.2K	5%	1/6W
R354	1-249-434-11	CARBON	27K	5%	1/6W
R355	1-215-477-00	CARBON	220K	5%	1/6W
R401	1-249-433-11	CARBON	22K	5%	1/6W
R402	1-249-433-11	CARBON	22K	5%	1/6W
R403	1-249-433-11	CARBON	22K	5%	1/6W
R404	1-249-433-11	CARBON	22K	5%	1/6W
R405	1-249-433-11	CARBON	22K	5%	1/6W
R406	1-249-433-11	CARBON	22K	5%	1/6W
R407	1-249-433-11	CARBON	22K	5%	1/6W
R408	1-249-441-11	CARBON	100K	5%	1/6W
R409	1-249-441-11	CARBON	100K	5%	1/6W
R410	1-249-429-11	CARBON	10K	5%	1/6W
R411	1-249-429-11	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R450	1-249-429-11	CARBON	10K	5%	1/6W
R451	1-249-433-11	CARBON	22K	5%	1/6W
R452	1-249-433-11	CARBON	22K	5%	1/6W
R453	1-249-433-11	CARBON	22K	5%	1/6W
R454	1-249-429-11	CARBON	10K	5%	1/6W
R455	1-249-433-11	CARBON	22K	5%	1/6W
R456	1-249-433-11	CARBON	22K	5%	1/6W
R457	1-249-429-11	CARBON	10K	5%	1/6W
R458	1-249-429-11	CARBON	10K	5%	1/6W
R459	1-249-433-11	CARBON	22K	5%	1/6W
R460	1-249-429-11	CARBON	10K	5%	1/6W
R461	1-249-429-11	CARBON	10K	5%	1/6W
R462	1-249-429-11	CARBON	10K	5%	1/6W
R463	1-249-429-11	CARBON	10K	5%	1/6W
R464	1-249-433-11	CARBON	22K	5%	1/6W
R465	1-249-425-11	CARBON	4.7K	5%	1/6W
R466	1-249-425-11	CARBON	4.7K	5%	1/6W
R467	1-249-425-11	CARBON	4.7K	5%	1/6W
R468	1-249-425-11	CARBON	4.7K	5%	1/6W
R469	1-249-425-11	CARBON	4.7K	5%	1/6W
R473	1-249-439-11	CARBON	68K	5%	1/6W
R501	1-249-422-11	CARBON	2.7K	5%	1/6W
R502	1-249-429-11	CARBON	10K	5%	1/6W
R503	1-249-429-11	CARBON	10K	5%	1/6W
R504	1-247-849-00	CARBON	5.6K	5%	1/6W
R505	1-249-429-11	CARBON	10K	5%	1/6W
R506	1-249-429-11	CARBON	10K	5%	1/6W
R507	1-215-493-00	CARBON	1M	5%	1/6W
R508	1-249-441-11	CARBON	100K	5%	1/6W
R509	1-249-429-11	CARBON	10K	5%	1/6W
R510	1-249-429-11	CARBON	10K	5%	1/6W
R511	1-249-429-11	CARBON	10K	5%	1/6W
R512	1-249-429-11	CARBON	10K	5%	1/6W
R513	1-249-429-11	CARBON	10K	5%	1/6W
R514	1-249-429-11	CARBON	10K	5%	1/6W
R515	1-247-849-00	CARBON	5.6K	5%	1/6W
R516	1-249-429-11	CARBON	10K	5%	1/6W
R517	1-247-885-00	CARBON	180K	5%	1/6W
R518	1-249-035-00	CARBON MELF	680	5%	1/5W
R519	1-249-429-11	CARBON	10K	5%	1/6W
R520	1-249-441-11	CARBON	100K	5%	1/6W
R601	1-247-849-00	CARBON	5.6K	5%	1/6W
R602	1-249-413-11	CARBON	470	5%	1/6W
R603	1-249-421-11	CARBON	2.2K	5%	1/6W
R604	1-249-429-11	CARBON	10K	5%	1/6W
R605	1-249-421-11	CARBON	2.2K	5%	1/6W
R606	1-249-429-11	CARBON	10K	5%	1/6W
R630	1-249-421-11	CARBON	2.2K	5%	1/6W
R650	1-249-429-11	CARBON	10K	5%	1/6W
R652	1-249-441-11	CARBON	100K	5%	1/6W
R670	1-249-413-11	CARBON	470	5%	1/6W
R671	1-249-422-11	CARBON	2.7K	5%	1/6W
R673	1-215-430-00	CARBON	2.4K	5%	1/6W
R674	1-249-424-11	CARBON	3.9K	5%	1/6W
R675	1-249-413-11	CARBON	470	5%	1/6W
R676	1-249-422-11	CARBON	2.7K	5%	1/6W
R677	1-249-417-11	CARBON	1K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R678	1-249-433-11	CARBON	22K	5%	1/6W	
R679	1-249-430-11	CARBON	12K	5%	1/6W	
R682	1-249-419-11	CARBON	1.5K	5%	1/6W	
R683	1-247-849-00	CARBON	5.6K	5%	1/6W	
R684	1-249-432-11	CARBON	18K	5%	1/6W	
R685	1-249-433-11	CARBON	22K	5%	1/6W	
R686	1-215-468-00	CARBON	91K	5%	1/6W	
R691	1-249-390-11	CARBON	5.6	5%	1/6W	
R692	1-249-390-11	CARBON	5.6	5%	1/6W	
R701	1-249-429-11	CARBON	10K	5%	1/6W	
R702	1-249-429-11	CARBON	10K	5%	1/6W	
R703	1-249-429-11	CARBON	10K	5%	1/6W	
R704	1-249-429-11	CARBON	10K	5%	1/6W	
R705	1-249-429-11	CARBON	10K	5%	1/6W	
R853	1-247-887-00	CARBON	220K	5%	1/6W	
R854	1-249-413-11	CARBON	470	5%	1/6W	
R855	1-249-432-11	CARBON	18K	5%	1/6W	
R901	1-249-429-11	CARBON	10K	5%	1/6W	
R902	1-249-422-11	CARBON	2.7K	5%	1/6W	
R903	1-249-419-11	CARBON	1.5K	5%	1/6W	
R904	1-249-434-11	CARBON	27K	5%	1/6W	
R905	1-249-438-11	CARBON	56K	5%	1/6W	
R906	1-249-420-11	CARBON	1.8K	5%	1/6W	
R907	1-217-383-00	FUSIBLE	4.7	5%	1/4W	F
R921	1-249-409-11	CARBON	220	5%	1/6W	
R980	1-249-429-11	CARBON	10K	5%	1/6W	
R981	1-249-421-11	CARBON	2.2K	5%	1/6W	
R982	1-249-421-11	CARBON	2.2K	5%	1/6W	
R983	1-249-421-11	CARBON	2.2K	5%	1/6W	
R984	1-249-421-11	CARBON	2.2K	5%	1/6W	
R985	1-249-424-11	CARBON	3.9K	5%	1/6W	
R986	1-249-421-11	CARBON	2.2K	5%	1/6W	
RV501	1-237-193-11	RES, ADJ, CARBON 10K				
S701	1-554-813-31	SWITCH, KEY BOARD (LEVEL -)				
S702	1-554-813-31	SWITCH, KEY BOARD (LEVEL +)				
S703	1-554-813-31	SWITCH, KEY BOARD (FADER -)				
S704	1-554-813-31	SWITCH, KEY BOARD (FADER +)				
S705	1-554-813-31	SWITCH, KEY BOARD (DISPLAY A)				
S706	1-554-813-31	SWITCH, KEY BOARD (DISPLAY B)				

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S707	1-554-813-31	SWITCH, KEY BOARD (BASS)
S708	1-554-813-31	SWITCH, KEY BOARD (SENS)
S709	1-554-813-31	SWITCH, KEY BOARD (4)
S710	1-554-813-31	SWITCH, KEY BOARD (POPS)
S711	1-554-813-31	SWITCH, KEY BOARD (ROCK)
S712	1-554-813-31	SWITCH, KEY BOARD (BGM)
S713	1-554-813-31	SWITCH, KEY BOARD (1)
S714	1-554-813-31	SWITCH, KEY BOARD (2)
S715	1-554-813-31	SWITCH, KEY BOARD (3)
S716	1-554-813-31	SWITCH, KEY BOARD (MEMORY)
S717	1-554-813-31	SWITCH, KEY BOARD (EQ)
T630	1-448-886-11	TRANSFORMER, DC-DC CONVERTER
THP670	1-807-961-11	THERMISTOR (POSITIVE)
X501	1-567-839-11	VIBRATOR, CERAMIC (3MHz)

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-532-360-XX	FUSE
1-556-167-00	CORD, CONNECTION
1-559-331-12	CORD (WITH CONNECTOR)
3-310-655-01	SUPPORT (ND), FITTING
*3-315-736-21	BRACKET, NEW D
3-315-746-01	STOPPER (SMALL)
3-320-636-01	BAG (C), PROTECTION
3-331-323-01	CUSHION (J)
3-339-902-01	INDIVIDUAL CARTON
3-339-927-01	SPACER
3-701-613-00	BAG, POLYETHYLENE
3-764-726-11	INSTRUCTION
3-764-726-42	(E)...INSTRUCTION
*3-764-460-01	(E)...INSTRUCTION
3-765-929-11	MANUAL, INSTRUCTION
3-765-929-42	(E)...MANUAL, INSTRUCTION
7-682-261-09	SCREW +K 4X8
X-3315-702-1	SCREW ASSY (25MM), FITTING

XE-8

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

SUPPLEMENT-1

File this supplement with the Service Manual.

Subject : CIRCUIT CHANGE

DISCRIMINATION

NEW TYPE : MOUNT TYPE PHONO JACK

(FORMER TYPE : WIRED TYPE PHONO JACK)

SPECIFICATIONS

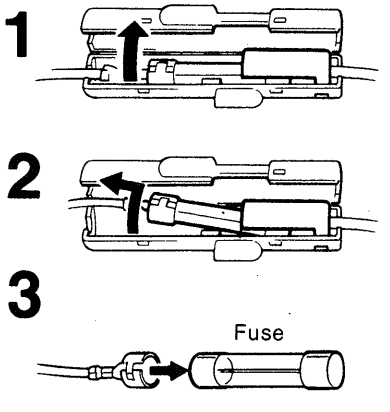
Center frequencies
60 Hz, 125 Hz, 250 Hz,
500 Hz, 1 kHz, 3.5 kHz,
10 kHz
Boost/cut range ±12dB
Sub-woofer cut-off frequency
80 Hz, 120 Hz
(at −3 dB)
output gain
−∞ to +8 dB or more
cut off slope −12 dB/oct
Frequency response
10 Hz−50 kHz $^{+0}_{-3}$ dB
Signal-to-noise ratio
more than 95 dB
(A-weighted)
Harmonic distortion at 1 kHz
Less than 0.005%
Gain 0 dB

Others

Input Line input
(phono jack × 1)
Output Line output
(phono jack × 3)
Power requirements
12 V DC car battery
(negative ground)
Current drain 400 mA
Mounting dimensions
Approx. 178 × 25 × 135 mm
(w/h/d)
($7^1/_8 \times 1 \times 5^3/_8$ inches)
Weight Approx. 0.8 kg (1 lb 13 oz)
Accessories supplied
Mounting hardware (1 set)
Connecting cord (1)

FUSE REPLACEMENT

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.



Warning
Use a 1 ampere fuse. Use of a higher amperage fuse may cause serious damage.

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FEATURES

- Graphic equalizer with fine four-colored liquid crystal 7-band spectrum analyzers.
- Three types of equalization are preset—POPS, ROCK, BGM. Moreover four original curves of your own creation can be memorized.
- Low harmonic distortion and high dynamic range by Battery Mirror circuit.
- Sub-woofer output function makes powerful sound of low frequencies.
- For a 4-speaker system, the fader control is furnished.

Flexible Circuit Board Repairing

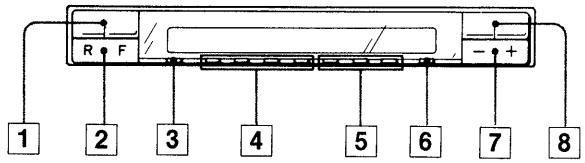
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS



1 BASS/SENS (sub-woofer cut-off/ spectrum analyzer sensitivity) button
BASS: to increase the bass parts
SENS: to change the extent of the spectrum analyzer indication

2 FADER button
Use to adjust the volume balance between the front and rear speakers.

3 EQ (equalizer) button
Selects the speaker output to be equalized. The EQ indicator is changed by pressing this button to F-R-FR-off. To deactivate the equalization, turn off the F and R indicators by pressing this button.

4 User's memory buttons
Press to memorize your original equalization curves or to recall the equalization curves memorized. These buttons also act as frequency band select buttons corresponding to the display indication.

5 Sony's fixed memory buttons
Recall the equalization curves memorized for each type of music: POPS, ROCK and BGM. These buttons also act as frequency band select buttons corresponding to the display indication.

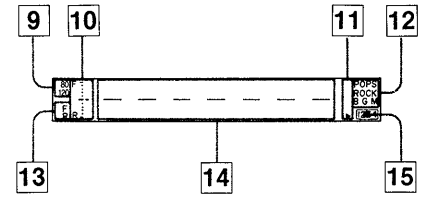
6 MEMORY button
Use to memorize your own equalization curves.

7 LEVEL button
Press the "+" or "–" when compensating each frequency band, when adjusting the bass parts or when adjusting the volume balance between the left and right speakers.

8 DISPLAY buttons
Select the type of indication in the display window.
A: changes to spectrum analyzer indication.
B: changes to equalizer indication.

Display window

The display changes as follows when the unit is operated.



9 Sub-woofer cut-off indicator
The cut-off frequency appears in this part.

10 FADER indicator

11 ▶ indicator
Shows the equalization curve which you have selected.

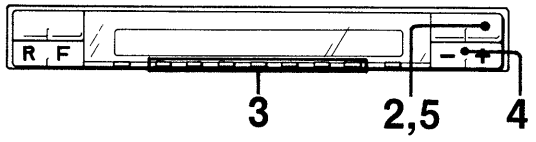
12 Sony's fixed memory indicator

13 EQ (equalization) indicator
Shows the speaker output to be equalized.
F: the sound from the front speakers
R: the sound from the rear speakers
FR: the sound from both front and rear speakers

14 Equalizer/analyzer display

15 User's memory number indicator

TO ADJUST THE EQUALIZER CONTROLS



1 Operate the car stereo.

2 Press B twice.
The equalization indicators in the display blink.

3 While the indicators are blinking, press the frequency band button to be used for equalization.
The indicator will light.

4 Press + or –.
Keep the + or – button depressed until you reach the desired level, or press it repeatedly.

➡ Repeat steps 3 and 4 for each frequency band.

5 Press B.
When the equalization curve is lit, the equalization is finished.

When you want to memorize your equalizer curve, see "To memorize the displayed curve" on page 4.

When a short "beep" sound is heard
Operation is finished. If the sound is not heard, repeat the operation.

When the LEVEL button is pressed continuously
The equalizer indicator continues to move, and if the indicator comes to the maximum or the minimum point, a "beep" will be heard.

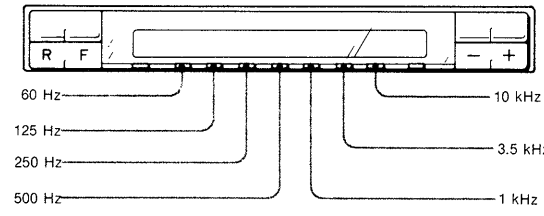
After approximately 20 seconds
The blinking of the equalization indicators will stop and the equalization cannot be made. To equalize, repeat the procedure from step 2.

When you want to cancel the adjustment of the equalization
Press the DISPLAY B button while the indicators are blinking.

See the supplied installation/connection manual regarding connections.

HOW TO ADJUST THE EQUALIZER CONTROLS—Hints on equalizing

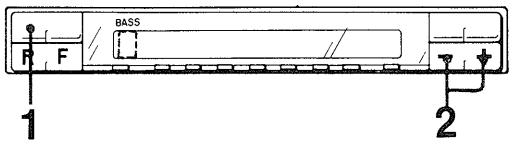
Press the LEVEL (+ or –) button once to move the indicator in the display window one step to the positive (+) or negative (–) direction. If the adjustment does not produce the anticipated improvement, press the button to move the indicator to its center position and try to adjust again.



60 Hz	Use to boost or cut heavy bass.
125 Hz	Use to boost or cut the normal bass in a piece of music.
250 Hz	This governs the low-middle range and greatly influences the overall characteristics of the sound.
500 Hz	This adjusts the middle-frequency range—the human voice and the middle frequencies of instrumental music.
1 kHz	Use to provide more presence for vocals.
3.5 kHz	This adjusts the brightness of sound.
10 kHz	This affects general treble.

TO LISTEN WITH SUB-WOOFER SPEAKERS—Using the BASS button

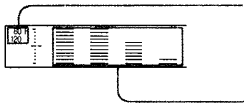
This function operates only on the outputs of the connected sub-woofer speakers.
Adjust the optimum sub-woofer response to the acoustic characteristics of a car room or speaker.



1 Press BASS to select 80 or 120.

2 Adjust the level of the sub-woofer speakers, while the indication appears.

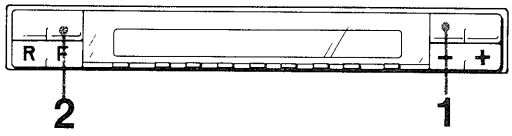
Once the BASS button has been pressed
The 80, 120 and no indication appear in turn.



80 Hz: to cut off more than 80 Hz
120 Hz: to cut off more than 120 Hz
No indication: No sound from sub-woofer speakers

The indication of the strengthened level remains lit for approximately 8 seconds by pressing the BASS button.

TO CHANGE THE SENSITIVITY OF THE SPECTRUM ANALYZER —Using the SENS button

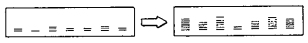


1 Press A.
The spectrum indications appear.

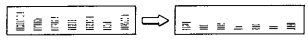
2 Press SENS.

Once the SENS button has been pressed

- When the deflection range of the spectrum analyzer is too narrow:

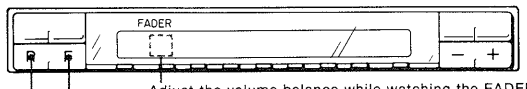


- When the deflection range of the spectrum analyzer is too wide:



When listening to the sound with high volume and the deflection range is too wide, narrow the range by pressing the SENS button.

TO ADJUST THE VOLUME BALANCE BETWEEN THE FRONT AND REAR SPEAKERS—Using the FADER button

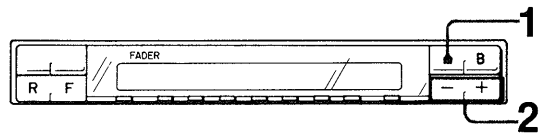


Adjust the volume balance while watching the FADER indicator.

Press to reduce the volume of the rear speakers.

Press to reduce the volume of the front speakers.

TO ADJUST THE VOLUME BALANCE BETWEEN THE RIGHT AND LEFT SPEAKERS

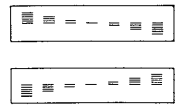


1 Press A.
The spectrum indications appear.

2 Adjust the volume balance.
+: press to reduce the volume of the left speaker.
−: press to reduce the volume of the right speaker.

If you continue to press the FADER button
The FADER indicator continues to change. When the indicator comes to the maximum or minimum point, a "beep" will be heard.

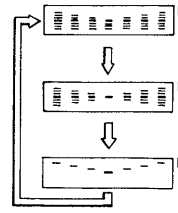
Spectrum analyzer indicators when adjusting the volume balance



When reducing the right speaker volume

When reducing the left speaker volume

Three modes of the spectrum analyzer indicators
Each time you press A, the display changes as follows:

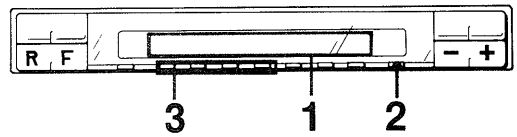


Normal spectrum analyzer indicators

Displays the sound level of each band.

Displays the real-time peak level of each band.

TO MEMORIZE THE DISPLAYED CURVE



1 Display the frequency curve to be memorized.
(See "To adjust the equalizer controls" on page 3.)

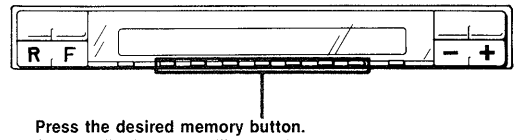
2 Press MEMORY.
(Press this button after the equalization curve to be memorized is determined.)
The equalization curve will blink and user's memory number 1–4 will blink in turn for approximately 8 seconds.

3 While the indicators are blinking, press the desired memory button.
The frequency curve and the user's memory number indicator will light, and memorization is finished.

To correct the memorized curve
Memorize a new frequency curve over the last memorized curve. The last curve will be erased and the new curve will be memorized.

Note
The blinking of the frequency curve will stop after approximately 8 seconds. If it stops, the curve can not be memorized. To memorize, repeat the procedure from start.

TO RECALL THE MEMORIZED CURVE

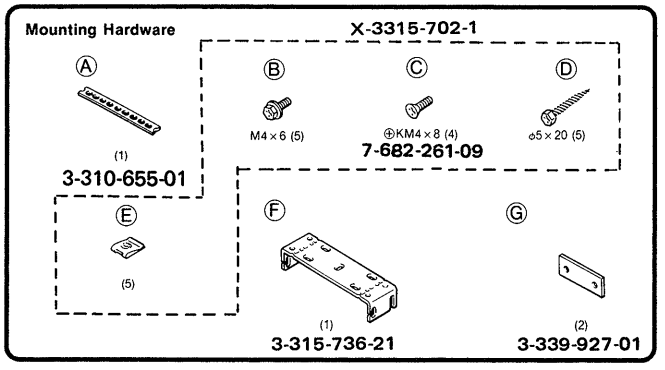


Press the desired memory button.
(The equalization curve will be displayed, and you can hear the equalized sound with the desired equalization curve.)

How to use the memory for equalization
The curves memorized in the POPS, ROCK, and BGM buttons are those considered effective for the corresponding type of music. Make your own original sound by referring to these curves.
1–4: sound equalized by your original curves
POPS: for vocal and popular music
ROCK: for rhythm, such as jazz and rock
BGM: for classic and mood music

Note
Once a memory button is pressed while spectrum indication appears, the equalization curve will appear temporarily and then return to spectrum indication.

INSTALLATION

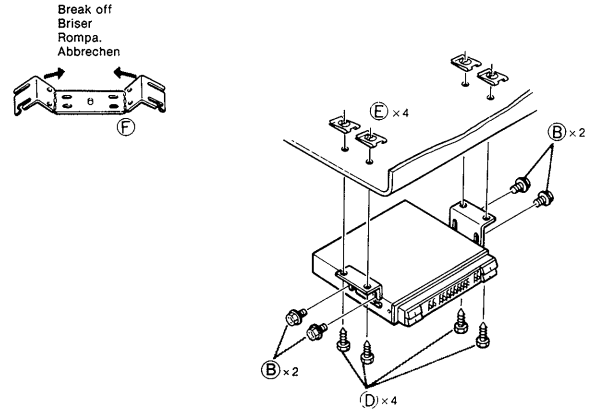


PRECAUTIONS

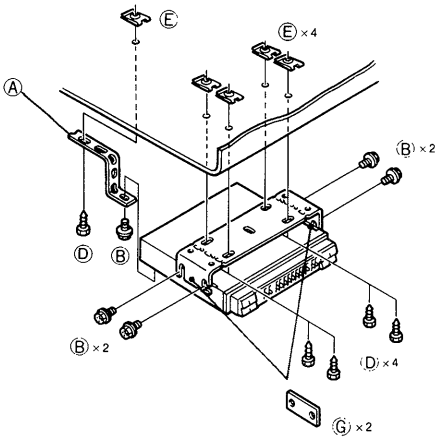
- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

MOUNTING EXAMPLE

Example 1



Example 2



Use the supplied mounting hardware.

1 Mark the locations of the holes on the bottom of the dashboard using the part Ⓕ as a template.

2 Drill 3 mm (1/8 in.) bolt holes.

3 Secure the pieces of part Ⓕ which are broken off to the bottom of the dashboard*.

4 Secure the unit to part Ⓕ.

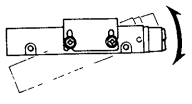
* If the dashboard or the firewall is thin or made of plastic or a similar material, secure the unit with tapping screws and tinnerman clips. If it is made of metal plate, the tinnerman clips are not necessary.

The unit can be installed inside the dashboard using an optional in-dash installation kit.

Notes

- Be sure to use the supplied bolts Ⓑ for mounting part Ⓕ on the unit. Longer bolts will damage the unit.
- Be careful not to damage wiring or equipment on the other side of the firewall.

The mounting position, height and angle can be adjusted as illustrated below.



CONNECTIONS

CAUTION

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the yellow power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

AMP REM (amplifier remote control) lead (remote out; blue/white striped)
Only one amplifier can be controlled through this lead.
Avoid multiple connections to the XE-8 AMP REM lead.

When the sound level seems high
When using source equipment of manufacturers other than Sony, adjust the output level of this equalizer by setting the LEVEL switch to LOW (See below.). But sure to set it to SONY STD when using Sony source equipment.

To adjust the output level of this equalizer

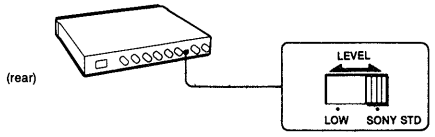
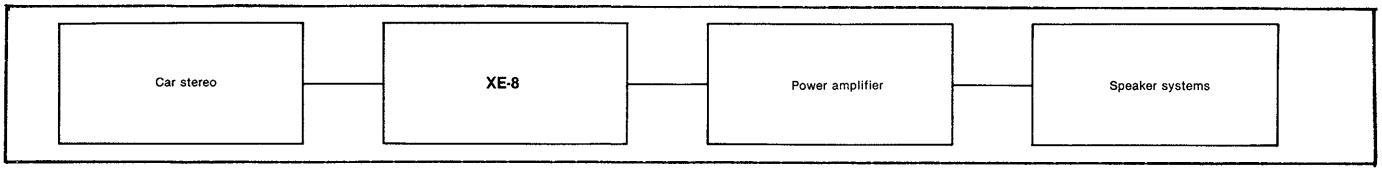
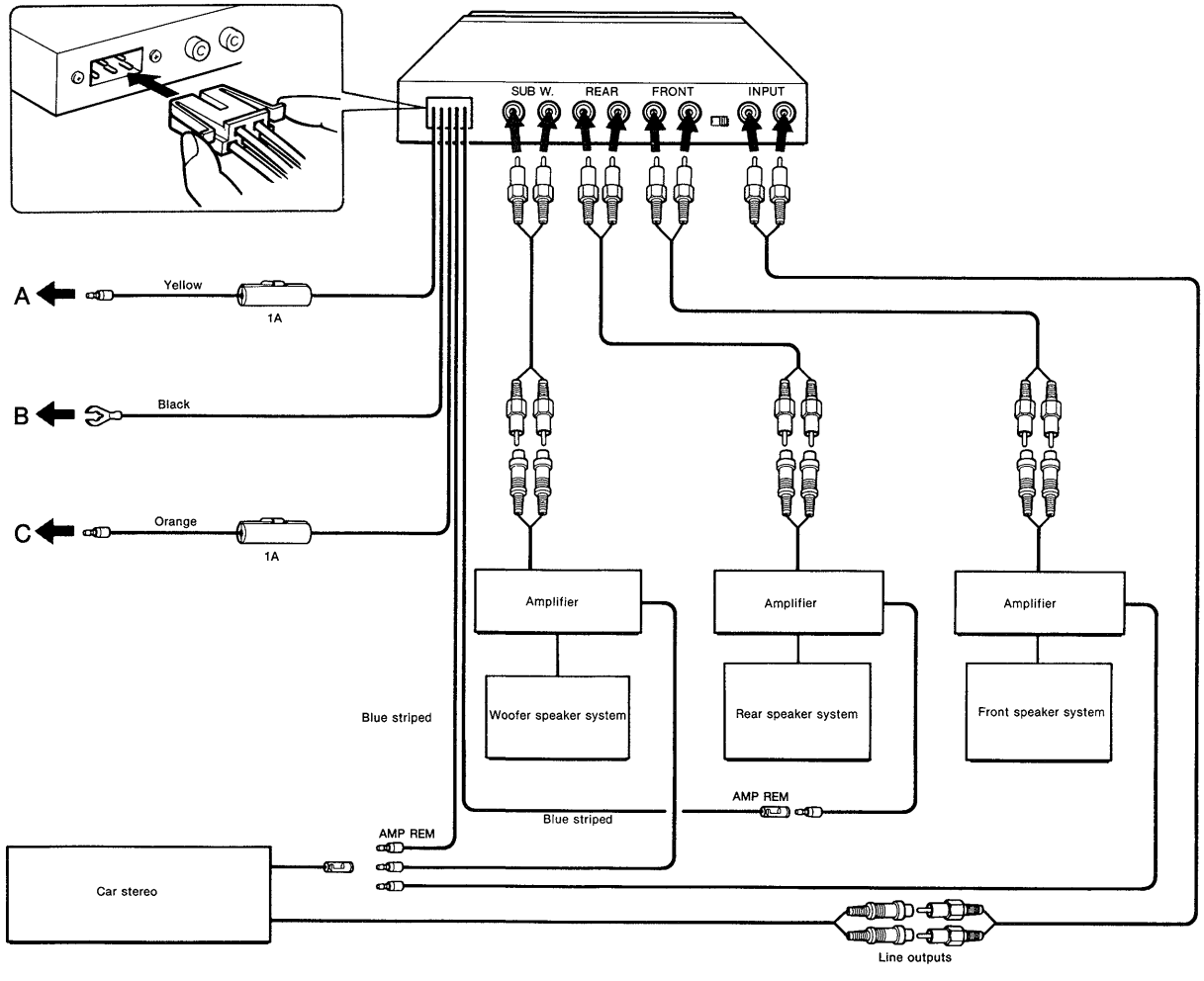


DIAGRAM OF EXAMPLE



CONNECTION DIAGRAM

Connection leads
Yellow: power input lead
Orange (orange, white striped): lighting lead
Blue (blue, white striped): amplifier remote control lead
Black: ground wire



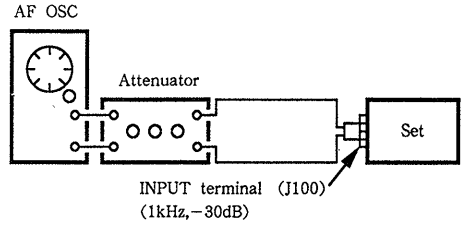
A : to the +12 V power terminal which is energized at all times
B : to metal point of a car
C : to the small lamp terminal which is energized by the small lamp switch

SECTION 2
ADJUSTMENT

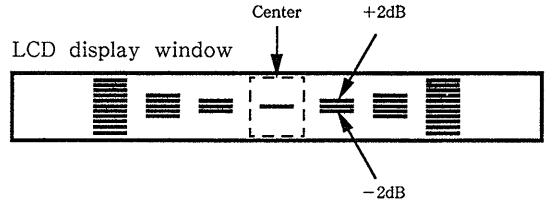
Note :Adjust After repairing or replacing the firststage amp, equalizer amp or RV501 on the AMPLIFIER (AUDIO) PC board.

[LCD Adjustment]

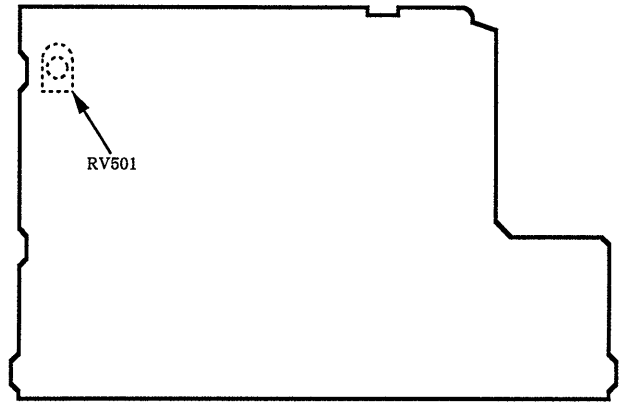
Adjustment method :



The LCD display shall be in the center (white) when a 1kHz, −30dB input is applied to the input terminal.
Also check for an increase of one scale graduation at the center when the attenuator is switched to ±2dB. If the above values cannot be obtained, adjust using RV501.



Adjustment location : MICRO CPMPUTER PC board (DIGITAL)



SECTION 3
DIAGRAMS

Semiconductors Lead Layout

GE65062A

NJM4558M

2SB822
2SC2673

AFM02F

μPD4053BG

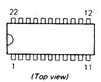
2SB1094-L

LA6358S
μPC4570HA-1

DTA114ES
DTA144WS
DTC143TS
DTC144ES
DTC144WS
2SA1344

2SC3395

LC7535



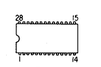
2SK246BL

M5218L

2SA1175
2SC2785
2SC3623-L

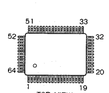
RD3.9ES-B1
RD4.7ES-B1
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B1
RD7.5ES-B1
RD10ES-B2
RD20ES-B2
1SS119

LC7522



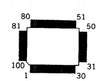
2SA1341

MB88516B-569K



2SB739

MSM5265GS-K



DSA1A2

● SEMICONDUCTOR LOCATION

Ref. No	Location	Ref. No	Location	Ref. No	Location	Ref. No	Location
IC100	C-9	IC120	C-7	Q453	E-2	D453	E-2
IC101	B-9			Q455	B-8	D454	G-3
IC102	D-8	Q103	D-6	Q456	B-8	D456	E-3
IC103	F-7	Q105	C-6	Q457	B-6	D803	E-3
IC104	E-8	Q107	D-5	Q458	B-5	D902	F-3
		Q109	C-5				
IC105	F-8	Q203	D-5	Q459	B-4	D903	G-4
IC106	F-9			Q801	F-3	D904	F-4
IC107	F-10	Q205	C-5	Q901	F-3	D980	C-1
IC108	G-4	Q207	D-4	Q902	F-4	D981	B-2
IC109	F-4	Q209	C-4	Q903	F-3	D982	B-3
		Q301	G-9				
IC110	E-4	Q302	G-9	Q904	F-3		
IC111	D-6			Q905	F-3		
IC112	D-4	Q401	D-10	Q906	G-3		
IC113	B-8	Q402	D-10	Q981	C-2		
IC114	B-6	Q403	E-10	Q982	C-3		
		Q404	E-10				
IC115	G-5	Q451	F-2	D401	G-9		
IC116	F-5			D450	E-3		
IC117	E-5	Q452	E-2	D451	E-2		

● Note on Schematic Diagram (AMPLIFIER SECTION)

Note:

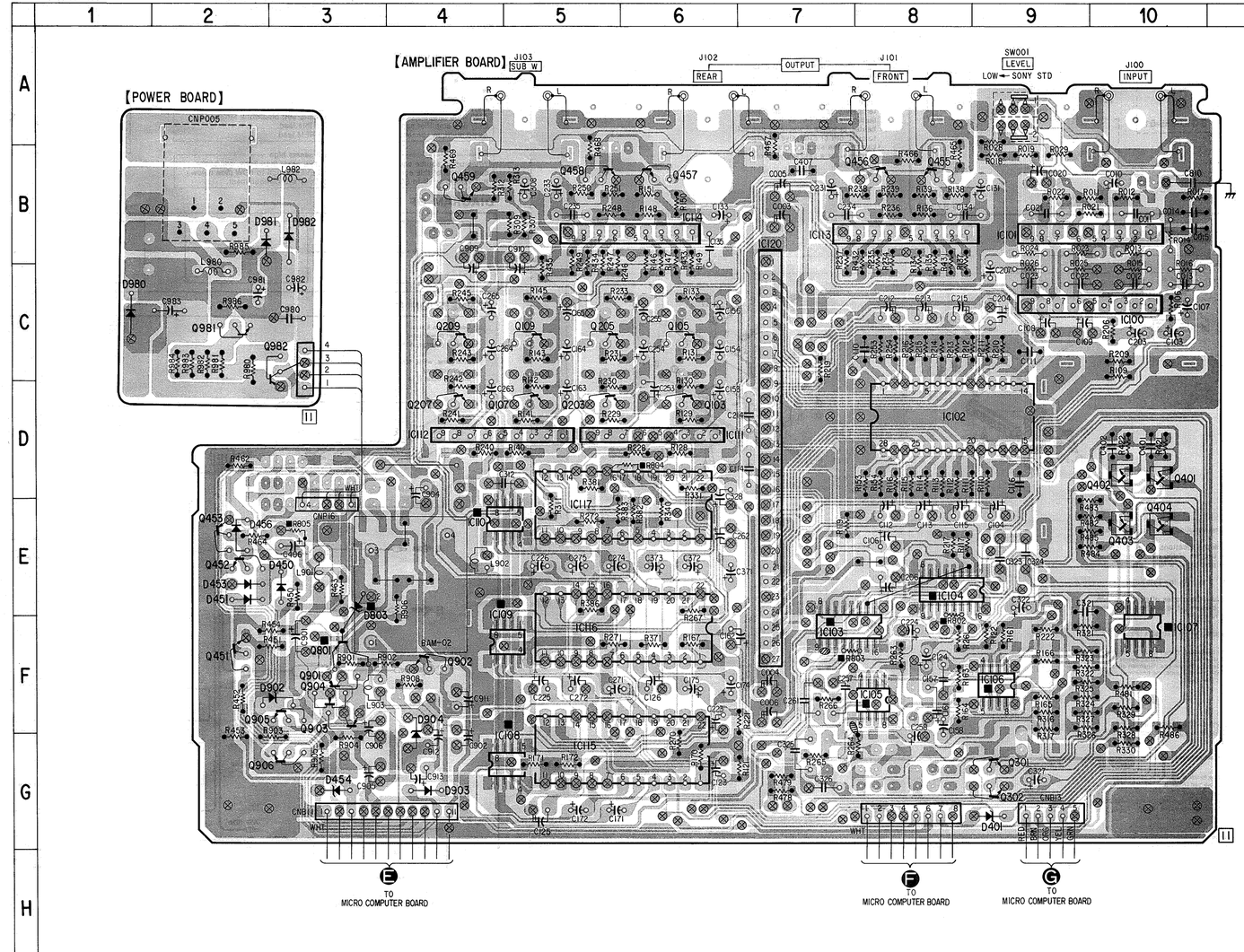
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B+ Line
- B− : B− Line
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.

● Note on Printed Wiring Boards (AMPLIFIER SECTION)

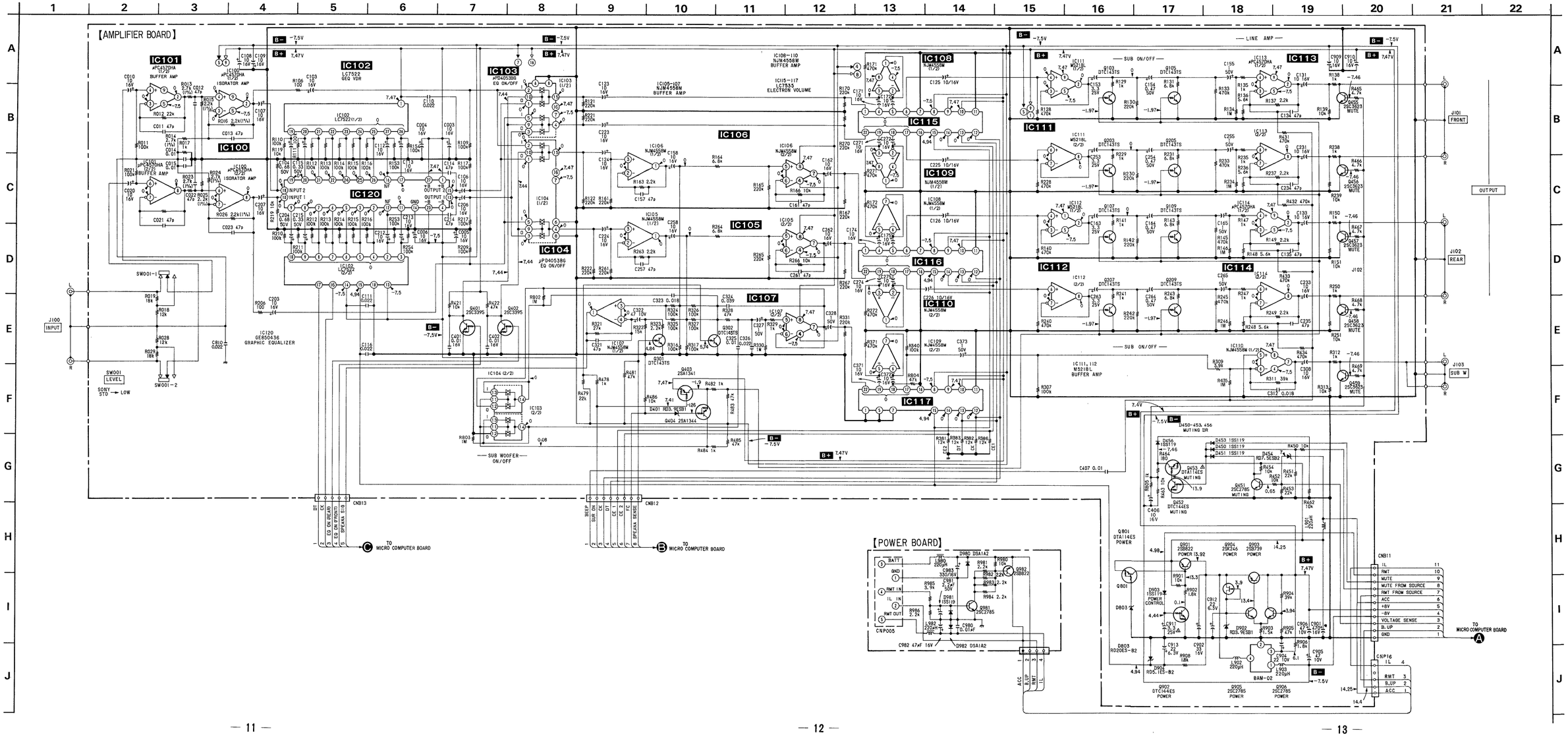
Note:

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- indicates side identified with part number.
- ⊗ : Through hole.
- : Pattern on the side which is seen.
- : Pattern of the rear side.
- : Solder bridge

3-1. PRINTED WIRING BOARDS (AMPLIFIER SECTION)



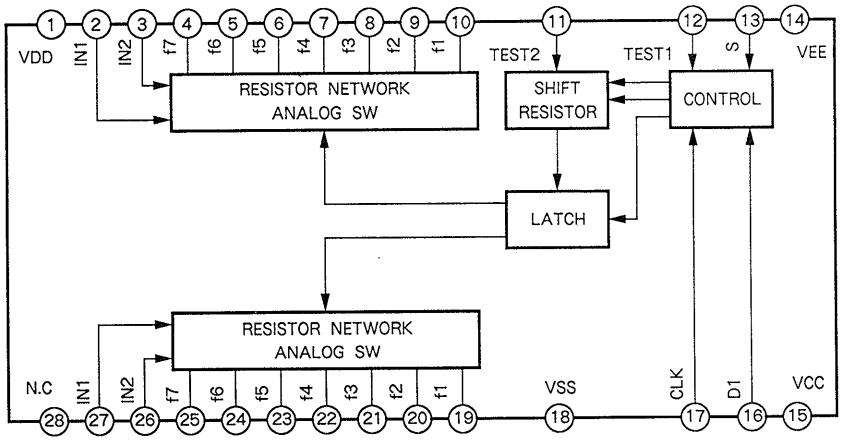
3-2. SCHEMATIC DIAGRAM (AMPLIFIER SECTION) ●See Page 9 for Note ●See Page 14 for IC Block Diagrams.



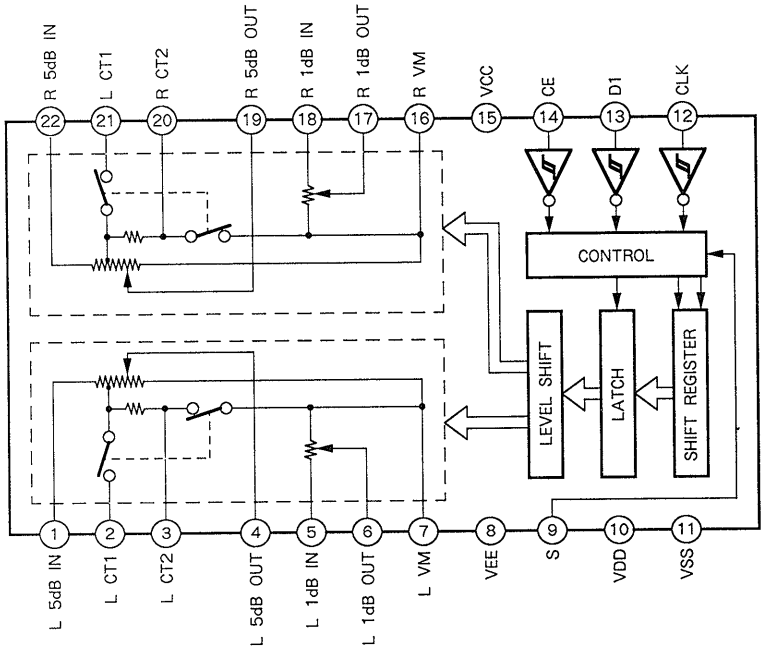
— 11 — — 12 — — 13 —

• IC BLOCK DIAGRAMS

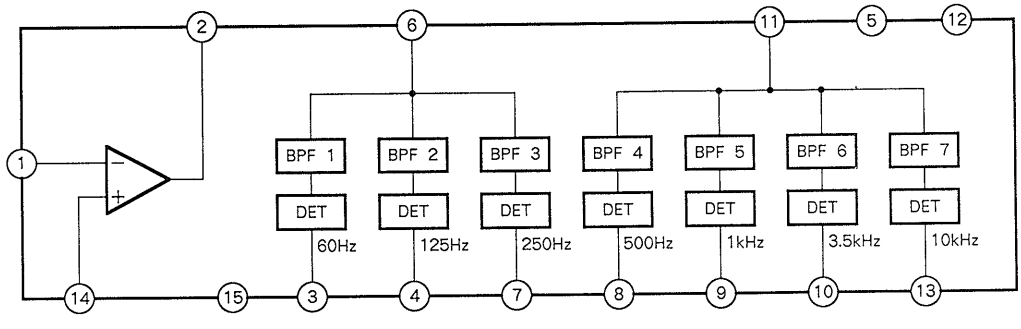
IC102 LC7522



IC115–117 LC7535



IC503 AFM02F

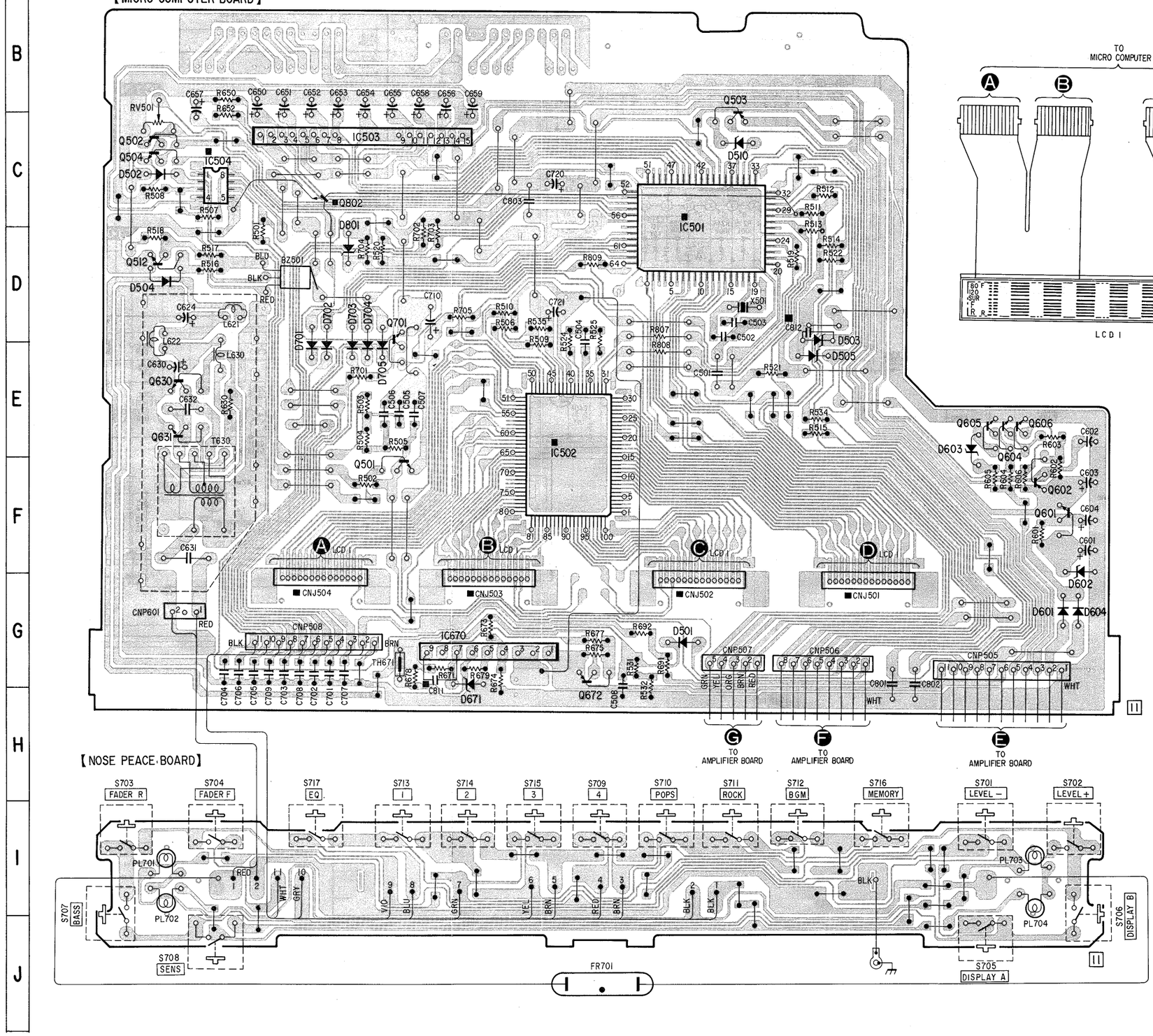


● SEMICONDUCTOR LOCATION

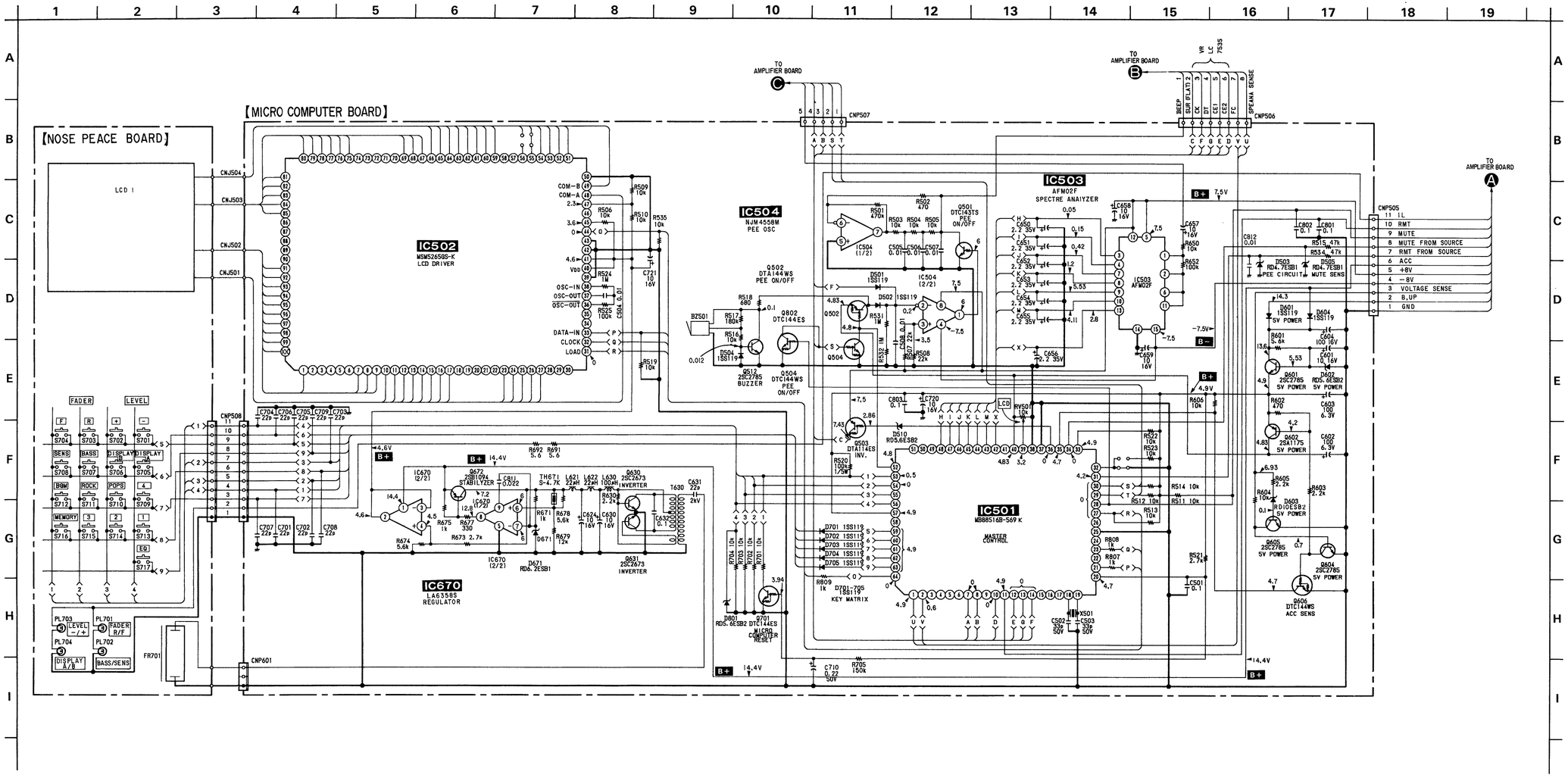
Ref. No	Location
IC501	C-6
IC502	E-5
IC503	C-3
IC504	C-2
IC670	G-4
Q501	F-4
Q502	C-2
Q503	C-7
Q504	C-2
Q512	D-2
Q601	F-9
Q602	F-9
Q604	E-9
Q605	E-9
Q606	E-9
Q630	E-2
Q631	E-2
Q672	G-5
Q701	D-4
Q802	C-3
D501	G-6
D502	C-2
D503	E-7
D504	D-2
D505	E-7
D510	C-7
D601	G-9
D602	G-10
D603	E-9
D604	G-10
D671	G-4
D701	E-3
D702	E-3
D703	E-3
D704	E-3
D705	E-4
D801	D-3

Note:

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.



3-4. SCHEMATIC DIAGRAM (MICRO COMPUTER SECTION) ● See Page 14 for IC Block Diagrams.



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Switch

Ref. No.	Switch	position
S701	LEVEL –	OFF
S702	LEVEL +	OFF
S703	FADER R	OFF
S704	FADER F	OFF
S705	DISPLAY A	OFF
S706	DISPLAY B	OFF
S707	BASS	OFF
S708	SENS	OFF
S709	4	OFF
S710	POPS	OFF
S711	ROCK	OFF
S712	BGM	OFF
S713	1	OFF
S714	2	OFF
S715	3	OFF
S716	MEMORY	OFF
S717	EQ	OFF
SW001	LEVEL	SONY STD

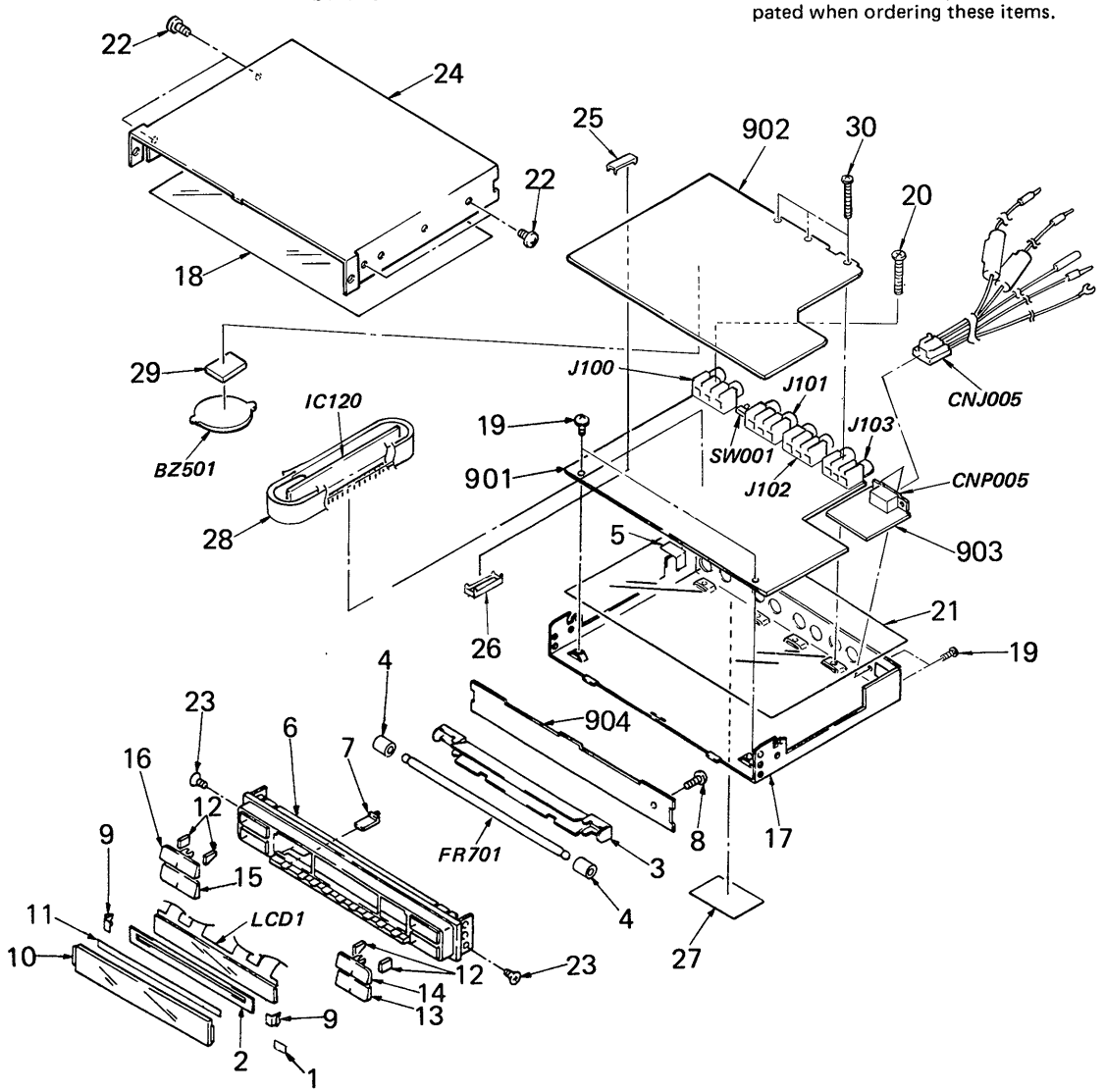
- B+ : B+ Line
- B− : B− Line
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.

SECTION 4
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

(1)



No.	Part No.	Description	Remarks
1	3-831-441-XX	CUSHION	
2	3-339-924-01	PLATE, GROUND	
3	3-339-907-01	REFLECTOR	
4	*3-339-925-01	TUBE, PROTECTION	
5	3-348-506-01	SHEET (GROUND)	
6	3-339-916-01	PIECE, NOSE	
7	3-339-905-11	BUTTON, EQ	
8	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
9	*3-339-930-01	BRACKET, LCD	
10	3-339-906-01	PLATE, TRANSPARENT	
11	3-339-908-01	SHEET, ADHESIVE	
12	3-339-904-01	SLIDER	
13	3-339-911-01	KNOB, UP/DOWN (LEVEL -/+)	
14	3-339-913-01	KNOB, DSPL/MEM (DISPLAY A/B)	
15	3-339-912-01	KNOB, FADER (R/F)	
16	3-339-910-01	KNOB, BASS/SENS	
17	*3-342-451-02	CASE (LOWER)	
18	*3-339-923-01	SHEET, INSULATING	
19	7-621-775-15	SCREW +B 2.6X4	
20	7-621-255-85	SCREW +P 2X14	
21	*3-346-815-01	SHEET (B)	
22	7-682-544-09	SCREW +B 3X3	
23	7-621-559-20	SCREW +K 2.6X4	
24	*3-342-450-01	COVER	
25	*3-339-928-01	CASE (UPPER), SHIELD	
26	*3-339-929-01	CASE (LOWER), SHIELD	
27	*3-339-919-01	(Canadian)...LABEL, MODEL NUMBER (CND)	
	*3-339-918-01	(US,E).....LABEL, MODEL NUMBER	
28	*3-322-043-01	SHEET, GROUND	
29	9-911-839-XX	CUSHION, FIXED	
30	7-621-256-25	SCREW +P 2X20	
901	*A-3270-512-A	MOUNTED PCB, AUDIO (AMP)	
902	*A-3216-572-A	PC BOARD ASSY, DIGITAL (MICON)	
903	*1-627-228-11	PC BOARD, POWER	
904	*1-627-229-11	PC BOARD, NOSE PEACE	
BZ501	1-529-014-00	BUZZER, PIEZOELECTRIC	
CNJ005	1-559-898-11	CORD (WITH CONNECTOR)	
CNP005	1-566-624-21	CONNECTOR 5P	
FR701	1-518-622-21	LAMP, FLUORESCENT	
IC120	1-807-891-11	IC GF65062A	
J100	1-565-412-11	JACK, PIN 2P (INPUT L/R)	
J101	1-565-412-11	JACK, PIN 2P (OUTPUT FRONT L/R)	
J102	1-565-412-11	JACK, PIN 2P (OUTPUT REAR L/R)	
J103	1-565-412-11	JACK, PIN 2P (SUB W L/R)	
LCD1	1-808-456-11	DISPLAY PANEL, LIQUID CRYSTAL	
SW001	1-570-875-11	SWITCH, SLIDE (LEVEL LOW/SONY STD)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

Ref.No.	Part No.	Description			
901	*A-3270-512-A	MOUNTED PCB, AUDIO (AMP)			
902	*A-3216-572-A	PC BOARD ASSY, DIGITAL (MICON)			
903	*1-627-228-11	PC BOARD, POWER			
904	*1-627-229-11	PC BOARD, NOSE PEACE			
BAM-02	A-3215-906-A	BATTERY MIRROR (DC-DC CONVERTER UNIT)			
BZ501	1-529-014-00	BUZZER, PIEZOELECTRIC			
C003	1-126-157-11	ELECT	10MF	20%	16V
C004	1-126-157-11	ELECT	10MF	20%	16V
C005	1-126-157-11	ELECT	10MF	20%	16V
C006	1-126-157-11	ELECT	10MF	20%	16V
C010	1-126-157-11	ELECT	10MF	20%	16V
C011	1-162-215-31	CERAMIC	47PF	5%	50V
C012	1-162-215-31	CERAMIC	47PF	5%	50V
C013	1-162-215-31	CERAMIC	47PF	5%	50V
C014	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C015	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C020	1-126-157-11	ELECT	10MF	20%	16V
C021	1-162-215-31	CERAMIC	47PF	5%	50V
C022	1-162-215-31	CERAMIC	47PF	5%	50V
C023	1-162-215-31	CERAMIC	47PF	5%	50V
C103	1-126-157-11	ELECT	10MF	20%	16V
C104	1-124-254-00	ELECT	0.68MF	20%	50V
C106	1-126-157-11	ELECT	10MF	20%	16V
C107	1-126-157-11	ELECT	10MF	20%	16V
C108	1-126-157-11	ELECT	10MF	20%	16V
C109	1-126-157-11	ELECT	10MF	20%	16V
C110	1-163-063-00	CERAMIC MELF	0.022MF	10%	50V
C111	1-163-063-00	CERAMIC MELF	0.022MF		25V
C112	1-126-157-11	ELECT	10MF	20%	16V
C113	1-126-157-11	ELECT	10MF	20%	16V
C114	1-162-215-31	CERAMIC	47PF	5%	50V
C115	1-124-252-00	ELECT	0.33MF	20%	50V
C116	1-163-063-00	CERAMIC MELF	0.022MF		25V
C123	1-126-157-11	ELECT	10MF	20%	16V
C124	1-126-157-11	ELECT	10MF	20%	16V
C125	1-126-157-11	ELECT	10MF	20%	16V
C126	1-126-157-11	ELECT	10MF	20%	16V
C131	1-126-157-11	ELECT	10MF	20%	16V
C133	1-126-157-11	ELECT	10MF	20%	16V
C134	1-162-215-31	CERAMIC	47PF	5%	50V
C135	1-162-215-31	CERAMIC	47PF	5%	50V
C153	1-126-162-11	ELECT	3.3MF	20%	25V
C154	1-124-465-00	ELECT	0.47MF	20%	50V
C155	1-124-255-00	ELECT	1MF	20%	50V
C157	1-162-215-31	CERAMIC	47PF	5%	50V
C158	1-126-157-11	ELECT	10MF	20%	16V
C161	1-162-215-31	CERAMIC	47PF	5%	50V
C162	1-126-157-11	ELECT	10MF	20%	16V
C163	1-126-162-11	ELECT	3.3MF	20%	25V
C164	1-124-465-00	ELECT	0.47MF	20%	50V
C165	1-124-255-00	ELECT	1MF	20%	50V
C171	1-126-157-11	ELECT	10MF	20%	16V
C172	1-126-157-11	ELECT	10MF	20%	16V
C174	1-126-157-11	ELECT	10MF	20%	16V
C175	1-126-157-11	ELECT	10MF	20%	16V
C203	1-126-157-11	ELECT	10MF	20%	16V
C204	1-124-254-00	ELECT	0.68MF	20%	50V
C206	1-126-157-11	ELECT	10MF	20%	16V
C207	1-126-157-11	ELECT	10MF	20%	16V
C212	1-126-157-11	ELECT	10MF	20%	16V
C213	1-126-157-11	ELECT	10MF	20%	16V
C214	1-162-215-31	CERAMIC	47PF	5%	50V
C215	1-124-252-00	ELECT	0.33MF	20%	50V
C223	1-126-157-11	ELECT	10MF	20%	16V
C224	1-126-157-11	ELECT	10MF	20%	16V
C225	1-126-157-11	ELECT	10MF	20%	16V
C226	1-126-157-11	ELECT	10MF	20%	16V
C231	1-126-157-11	ELECT	10MF	20%	16V
C233	1-126-157-11	ELECT	10MF	20%	16V
C234	1-162-215-31	CERAMIC	47PF	5%	50V
C235	1-162-215-31	CERAMIC	47PF	5%	50V
C253	1-126-162-11	ELECT	3.3MF	20%	25V
C254	1-124-465-00	ELECT	0.47MF	20%	50V
C255	1-124-255-00	ELECT	1MF	20%	50V
C257	1-162-215-31	CERAMIC	47PF	5%	50V
C258	1-126-157-11	ELECT	10MF	20%	16V
C261	1-162-215-31	CERAMIC	47PF	5%	50V
C262	1-126-157-11	ELECT	10MF	20%	16V
C263	1-126-162-11	ELECT	3.3MF	20%	25V
C264	1-124-465-00	ELECT	0.47MF	20%	50V
C265	1-124-255-00	ELECT	1MF	20%	50V
C271	1-126-157-11	ELECT	10MF	20%	16V
C272	1-126-157-11	ELECT	10MF	20%	16V
C274	1-126-157-11	ELECT	10MF	20%	16V
C275	1-126-157-11	ELECT	10MF	20%	16V
C308	1-126-157-11	ELECT	10MF	20%	16V
C312	1-136-156-00	FILM	0.018MF	5%	50V
C321	1-163-173-00	CERAMIC MELF	47PF	5%	50V
C322	1-124-589-11	ELECT	47MF	20%	10V
C323	1-136-156-00	FILM	0.018MF	5%	50V

Ref.No.	Part No.	Description			
C324	1-136-492-91	FILM	0.039MF	5%	50V
C325	1-136-153-00	FILM	0.01MF	5%	50V
C326	1-163-157-00	FILM	0.022MF	5%	50V
C327	1-124-255-00	ELECT	1MF	20%	50V
C328	1-124-255-00	ELECT	1MF	20%	50V
C371	1-126-157-11	ELECT	10MF	20%	16V
C372	1-126-157-11	ELECT	10MF	20%	16V
C373	1-124-255-00	ELECT	1MF	20%	50V
C401	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C402	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C406	1-126-157-11	ELECT	10MF	20%	16V
C407	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C501	1-136-165-00	FILM	0.1MF	5%	50V
C502	1-163-169-00	CERAMIC MELF	33PF	[illegible]	50V
C503	1-163-169-00	CERAMIC MELF	33PF	5%	50V
C504	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C505	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C506	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C507	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C508	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C601	1-126-157-11	ELECT	10MF	20%	16V
C602	1-124-225-00	ELECT	100MF	20%	6.3V
C603	1-124-225-00	ELECT	100MF	20%	6.3V
C604	1-126-101-11	ELECT	100MF	20%	16V
C624	1-126-157-11	ELECT	10MF	20%	16V
C630	1-126-157-11	ELECT	10MF	20%	16V
C631	1-162-980-11	CERAMIC	22PF	5%	2KV
C632	1-130-768-00	FILM	0.1MF	10%	63V
C650	1-124-257-00	ELECT	2.2MF	20%	35V
C651	1-124-257-00	ELECT	2.2MF	20%	35V
C652	1-124-257-00	ELECT	2.2MF	20%	35V
C653	1-124-257-00	ELECT	2.2MF	20%	35V
C654	1-124-257-00	ELECT	2.2MF	20%	35V
C655	1-124-257-00	ELECT	2.2MF	20%	35V
C656	1-124-257-00	ELECT	2.2MF	20%	35V
C657	1-126-157-11	ELECT	10MF	20%	16V
C658	1-126-157-11	ELECT	10MF	20%	16V
C659	1-126-157-11	ELECT	10MF	20%	16V
C701	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C702	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C703	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C704	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C705	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C706	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C707	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C708	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C709	1-163-165-00	CERAMIC MELF	22PF	5%	50V
C710	1-124-464-11	ELECT	0.22MF	20%	50V
C720	1-126-157-11	ELECT	10MF	20%	16V
C721	1-126-157-11	ELECT	10MF	20%	16V
C801	1-136-165-00	FILM	0.1MF	5%	50V
C802	1-136-165-00	FILM	0.1MF	5%	50V
C803	1-136-165-00	FILM	0.1MF	5%	50V
C810	1-163-157-00	FILM	0.022MF	5%	50V
C811	1-161-494-00	CERAMIC	0.022MF		25V
C812	1-163-059-00	CERAMIC MELF	0.01MF	30%	16V
C901	1-126-103-11	ELECT	470MF	20%	16V

Ref.No.	Part No.	Description			
C902	1-124-242-00	ELECT	33MF	20%	16V
C904	1-124-234-00	ELECT	22MF	20%	10V
C905	1-124-589-11	ELECT	47MF	20%	10V
C906	1-124-589-11	ELECT	47MF	20%	10V
C909	1-126-157-11	ELECT	10MF	20%	16V
C910	1-126-157-11	ELECT	10MF	20%	16V
C911	1-126-162-11	ELECT	3.3MF	20%	25V
C912	1-126-153-11	ELECT	22MF	20%	6.3V
C913	1-126-153-11	ELECT	22MF	20%	6.3V
C980	1-136-153-00	FILM	0.01MF	5%	50V
C981	1-124-257-00	ELECT	2.2MF	20%	50V
C982	1-124-589-11	ELECT	47MF	20%	16V
C983	1-124-119-00	ELECT	330MF	20%	16V
CNJ005	1-559-898-11	CORD (WITH CONNECTOR)			
CNJ501	1-566-530-11	FPC CONNECTOR (ZIF) 4P			
CNJ502	1-566-530-11	FPC CONNECTOR (ZIF) 4P			
CNJ503	1-566-530-11	FPC CONNECTOR (ZIF) 4P			
CNJ504	1-566-530-11	FPC CONNECTOR (ZIF) 4P			
CNP005*	1-566-624-21	CONNECTOR 5P			
CNP16 *	1-564-004-00	PIN, CONNECTOR 5P			
CNP505*	1-566-008-11	PIN, CONNECTOR (PC BOARD) 11P			
CNP506*	1-564-018-51	PIN, CONNECTOR 8P			
CNP507*	1-564-015-00	PIN, CONNECTOR 5P			
CNP508	1-566-008-21	PIN, CONNECTOR (PC BOARD) 11P			
CNP601*	1-564-013-00	PIN, CONNECTOR 3P			
D401	8-719-109-71	DIODE RD3.9ES-B1			
D450	8-719-911-19	DIODE 1SS119			
D451	8-719-911-19	DIODE 1SS119			
D453	8-719-911-19	DIODE 1SS119			
D454	8-719-110-02	DIODE RD7.5ES-B1			
D456	8-719-911-19	DIODE 1SS119			
D501	8-719-911-19	DIODE 1SS119			
D502	8-719-911-19	DIODE 1SS119			
D503	8-719-109-80	DIODE RD4.7ES-B1			
D504	8-719-911-19	DIODE 1SS119			
D505	8-719-109-80	DIODE RD4.7ES-B1			
D510	8-719-109-89	DIODE RD5.6ES-B2			
D601	8-719-911-19	DIODE 1SS119			
D602	8-719-109-89	DIODE RD5.6ES-B2			
D603	8-719-110-17	DIODE RD10ES-B2			
D604	8-719-911-19	DIODE 1SS119			
D671	8-719-109-92	DIODE RD6.2ES-B1			
D701	8-719-911-19	DIODE 1SS119			
D702	8-719-911-19	DIODE 1SS119			
D703	8-719-911-19	DIODE 1SS119			
D704	8-719-911-19	DIODE 1SS119			
D705	8-719-911-19	DIODE 1SS119			
D801	8-719-109-89	DIODE RD5.6ES-B2			
D803	8-719-110-53	DIODE RD20ES-B2			
D902	8-719-109-71	DIODE RD3.9ES-B1			
D903	8-719-911-19	DIODE 1SS119			
D904	8-719-109-85	DIODE RD5.1ES-B2			
D980	8-719-928-26	DIODE DSA1A2			
D981	8-719-911-19	DIODE 1SS119			
D982	8-719-928-26	DIODE DSA1A2			
FR701	1-518-622-21	LAMP, FLUORESCENT			

Ref.No.	Part No.	Description
IC100	8-599-112-93	IC UPC4570HA-1
IC101	8-759-112-93	IC UPC4570HA-1
IC102	8-759-804-49	IC LC7522
IC103	8-759-103-25	IC UPD4053BG
IC104	8-759-103-25	IC UPD4053BG
IC105	8-759-700-43	IC NJM4558M
IC106	8-759-700-43	IC NJM4558M
IC107	8-759-700-43	IC NJM4558M
IC108	8-759-700-43	IC NJM4558M
IC109	8-759-700-43	IC NJM4558M
IC110	8-759-700-43	IC NJM4558M
IC111	8-759-600-02	IC M5218L
IC112	8-759-600-02	IC M5218L
IC113	8-759-112-93	IC UPC4570HA-1
IC114	8-759-112-93	IC UPC4570HA-1
IC115	8-759-820-11	IC LC7535
IC116	8-759-820-11	IC LC7535
IC117	8-759-820-11	IC LC7535
IC120	1-807-891-11	IC GE65062A
IC501	8-759-977-75	IC MB88516B-569K
IC502	8-759-941-24	IC MSM5265GS-K
IC503	1-807-817-11	IC AFM02F
IC504	8-759-700-43	IC NJM4558M
IC670	8-759-802-43	IC LA6358S
J100	1-565-412-11	JACK, PIN 2P (INPUT L/R)
J101	1-565-412-11	JACK, PIN 2P (OUTPUT FRONT L/R)
J102	1-565-412-11	JACK, PIN 2P (OUTPUT REAR L/R)
J103	1-565-412-11	JACK, PIN 2P (SUB W L/R)
L621	1-421-635-00	COIL, CHOKE 22UH
L622	1-421-635-00	COIL, CHOKE 22UH
L630	1-421-967-11	COIL, CHOKE 100UH
L901	1-421-976-11	COIL, CHOKE 220UH
L902	1-407-173-XX	INDUCTOR 220UH
L903	1-407-173-XX	INDUCTOR 220UH
L980	1-421-976-11	COIL, CHOKE 220UH
L982	1-421-976-11	COIL, CHOKE 220UH
LCD1	1-808-456-11	DISPLAY PANEL, LIQUID CRYSTAL
PL701	1-518-626-11	LAMP, PILOT (FADER R/F)
PL702	1-518-626-11	LAMP, PILOT (BASS/SENS)
PL703	1-518-626-11	LAMP, PILOT (LEVEL -/+)
PL704	1-518-626-11	LAMP, PILOT (DISPLAY A/B)
Q103	8-729-900-74	TRANSISTOR DTC143TS
Q105	8-729-900-74	TRANSISTOR DTC143TS
Q107	8-729-900-74	TRANSISTOR DTC143TS
Q109	8-729-900-74	TRANSISTOR DTC143TS
Q203	8-729-900-74	TRANSISTOR DTC143TS
Q205	8-729-900-74	TRANSISTOR DTC143TS
Q207	8-729-900-74	TRANSISTOR DTC143TS
Q209	8-729-900-74	TRANSISTOR DTC143TS
Q301	8-729-900-74	TRANSISTOR DTC143TS
Q302	8-729-900-74	TRANSISTOR DTC143TS
Q401	8-729-805-45	TRANSISTOR 2SC3395
Q402	8-729-805-45	TRANSISTOR 2SC3395
Q403	8-729-805-69	TRANSISTOR 2SA1341
Q404	8-729-805-65	TRANSISTOR 2SA1344
Q451	8-729-178-54	TRANSISTOR 2SC2785

Ref.No.	Part No.	Description
Q452	8-729-900-89	TRANSISTOR DTC144ES
Q453	8-729-900-61	TRANSISTOR DTA114ES
Q455	8-729-107-77	TRANSISTOR 2SC3623-L
Q456	8-729-107-77	TRANSISTOR 2SC3623-L
Q457	8-729-107-77	TRANSISTOR 2SC3623-L
Q458	8-729-107-77	TRANSISTOR 2SC3623-L
Q459	8-729-107-77	TRANSISTOR 2SC3623-L
Q501	8-729-900-74	TRANSISTOR DTC143TS
Q502	8-729-900-69	TRANSISTOR DTA144WS
Q503	8-729-900-61	TRANSISTOR DTA114ES
Q504	8-729-900-85	TRANSISTOR DTC144WS
Q512	8-729-178-54	TRANSISTOR 2SC2785
Q601	8-729-178-54	TRANSISTOR 2SC2785
Q602	8-729-117-54	TRANSISTOR 2SA1175
Q604	8-729-178-54	TRANSISTOR 2SC2785
Q605	8-729-178-54	TRANSISTOR 2SC2785
Q606	8-729-900-85	TRANSISTOR DTC144WS
Q630	8-729-967-32	TRANSISTOR 2SC2673
Q631	8-729-967-32	TRANSISTOR 2SC2673
Q672	8-729-111-67	TRANSISTOR 2SB1094-L
Q701	8-729-900-89	TRANSISTOR DTC144ES
Q801	8-729-900-61	TRANSISTOR DTA114ES
Q802	8-729-900-89	TRANSISTOR DTC144ES
Q901	8-729-982-22	TRANSISTOR 2SB822
Q902	8-729-900-89	TRANSISTOR DTC144ES
Q903	8-729-373-92	TRANSISTOR 2SB739
Q904	8-729-224-63	TRANSISTOR 2SK246BL
Q905	8-729-178-54	TRANSISTOR 2SC2785
Q906	8-729-178-54	TRANSISTOR 2SC2785
Q981	8-729-178-54	TRANSISTOR 2SC2785
Q982	8-729-982-22	TRANSISTOR 2SB822
R011	1-249-441-11	CARBON MELF 100K 5% 1/5W
R012	1-249-433-11	CARBON MELF 22K 5% 1/5W
R013	1-215-431-00	METAL 2.7K 1% 1/6W
R014	1-215-431-00	METAL 2.7K 1% 1/6W
R015	1-215-429-00	METAL 2.2K 1% 1/6W
R016	1-215-429-00	METAL 2.2K 1% 1/6W
R017	1-249-417-11	CARBON MELF 1K 5% 1/5W
R018	1-249-430-11	CARBON MELF 12K 5% 1/5W
R019	1-249-432-11	CARBON MELF 18K 5% 1/5W
R021	1-249-441-11	CARBON MELF 100K 5% 1/5W
R022	1-249-433-11	CARBON MELF 22K 5% 1/5W
R023	1-215-431-00	METAL 2.7K 1% 1/6W
R024	1-215-431-00	METAL 2.7K 1% 1/6W
R025	1-215-429-00	METAL 2.2K 1% 1/6W
R026	1-215-429-00	METAL 2.2K 1% 1/6W
R028	1-249-430-11	CARBON MELF 12K 5% 1/5W
R029	1-249-432-11	CARBON MELF 18K 5% 1/5W
R106	1-249-405-11	CARBON MELF 100 5% 1/5W
R109	1-249-441-11	CARBON MELF 100K 5% 1/5W
R110	1-249-441-11	CARBON MELF 100K 5% 1/5W
R111	1-249-441-11	CARBON MELF 100K 5% 1/5W
R112	1-249-441-11	CARBON MELF 100K 5% 1/5W
R113	1-249-441-11	CARBON MELF 100K 5% 1/5W
R114	1-249-441-11	CARBON MELF 100K 5% 1/5W
R115	1-249-441-11	CARBON MELF 100K 5% 1/5W
R116	1-249-441-11	CARBON MELF 100K 5% 1/5W
R117	1-249-441-11	CARBON MELF 100K 5% 1/5W

Ref.No.	Part No.	Description			
R119	1-249-429-11	CARBON MELF	10K	5%	1/5W
R121	1-215-477-00	CARBON MELF	220K	5%	1/5W
R122	1-215-477-00	CARBON MELF	220K	5%	1/5W
R128	1-215-485-00	CARBON MELF	470K	5%	1/5W
R129	1-249-417-11	CARBON MELF	1K	5%	1/5W
R130	1-215-477-00	CARBON MELF	220K	5%	1/5W
R131	1-249-427-11	CARBON MELF	6.8K	5%	1/5W
R133	1-215-485-00	CARBON MELF	470K	5%	1/5W
R134	1-215-493-00	CARBON MELF	1M	5%	1/5W
R135	1-249-417-11	CARBON MELF	1K	5%	1/5W
R136	1-249-426-11	CARBON MELF	5.6K	5%	1/5W
R137	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R138	1-249-417-11	CARBON MELF	1K	5%	1/5W
R139	1-249-429-11	CARBON MELF	10K	5%	1/5W
R140	1-215-485-00	CARBON MELF	470K	5%	1/5W
R141	1-249-417-11	CARBON MELF	1K	5%	1/5W
R142	1-215-477-00	CARBON MELF	220K	5%	1/5W
R143	1-249-427-11	CARBON MELF	6.8K	5%	1/5W
R145	1-215-485-00	CARBON MELF	470K	5%	1/5W
R146	1-215-493-00	CARBON MELF	1M	5%	1/5W
R147	1-249-417-11	CARBON MELF	1K	5%	1/5W
R148	1-249-426-11	CARBON MELF	5.6K	5%	1/5W
R149	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R150	1-249-417-11	CARBON MELF	1K	5%	1/5W
R151	1-249-429-11	CARBON MELF	10K	5%	1/5W
R153	1-249-441-11	CARBON MELF	100K	5%	1/5W
R154	1-249-441-11	CARBON MELF	100K	5%	1/5W
R161	1-215-477-00	CARBON MELF	220K	5%	1/5W
R163	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R164	1-249-427-11	CARBON MELF	6.8K	5%	1/5W
R165	1-215-477-00	CARBON MELF	220K	5%	1/5W
R166	1-249-429-11	CARBON MELF	10K	5%	1/5W
R167	1-215-477-00	CARBON MELF	220K	5%	1/5W
R170	1-215-477-00	CARBON MELF	220K	5%	1/5W
R171	1-215-485-00	CARBON MELF	470K	5%	1/5W
R172	1-215-485-00	CARBON MELF	470K	5%	1/5W
R206	1-249-405-11	CARBON MELF	100	5%	1/5W
R209	1-249-441-11	CARBON MELF	100K	5%	1/5W
R210	1-249-441-11	CARBON MELF	100K	5%	1/5W
R211	1-249-441-11	CARBON MELF	100K	5%	1/5W
R212	1-249-441-11	CARBON MELF	100K	5%	1/5W
R213	1-249-441-11	CARBON MELF	100K	5%	1/5W
R214	1-249-441-11	CARBON MELF	100K	5%	1/5W
R215	1-249-441-11	CARBON MELF	100K	5%	1/5W
R216	1-249-441-11	CARBON MELF	100K	5%	1/5W
R217	1-249-441-11	CARBON MELF	100K	5%	1/5W
R219	1-249-429-11	CARBON MELF	10K	5%	1/5W
R221	1-215-477-00	CARBON MELF	220K	5%	1/5W
R222	1-215-477-00	CARBON MELF	220K	5%	1/5W
R228	1-215-485-00	CARBON MELF	470K	5%	1/5W
R229	1-249-417-11	CARBON MELF	1K	5%	1/5W
R230	1-215-477-00	CARBON MELF	220K	5%	1/5W
R231	1-249-427-11	CARBON MELF	6.8K	5%	1/5W
R233	1-215-485-00	CARBON MELF	470K	5%	1/5W
R234	1-215-493-00	CARBON MELF	1M	5%	1/5W
R235	1-249-417-11	CARBON MELF	1K	5%	1/5W
R236	1-249-426-11	CARBON MELF	5.6K	5%	1/5W

Ref.No.	Part No.	Description			
R237	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R238	1-249-417-11	CARBON MELF	1K	5%	1/5W
R239	1-249-429-11	CARBON MELF	10K	5%	1/5W
R240	1-215-485-00	CARBON MELF	470K	5%	1/5W
R241	1-249-417-11	CARBON MELF	1K	5%	1/5W
R242	1-215-477-00	CARBON MELF	220K	5%	1/5W
R243	1-249-427-11	CARBON MELF	6.8K	5%	1/5W
R245	1-215-485-00	CARBON MELF	470K	5%	1/5W
R246	1-215-493-00	CARBON MELF	1M	5%	1/5W
R247	1-249-417-11	CARBON MELF	1K	5%	1/5W
R248	1-249-426-11	CARBON MELF	5.6K	5%	1/5W
R249	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R250	1-249-417-11	CARBON MELF	1K	5%	1/5W
R251	1-249-429-11	CARBON MELF	10K	5%	1/5W
R253	1-249-441-11	CARBON MELF	100K	5%	1/5W
R254	1-249-441-11	CARBON MELF	100K	5%	1/5W
R261	1-215-477-00	CARBON MELF	220K	5%	1/5W
R263	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R264	1-249-427-11	CARBON MELF	6.8K	5%	1/5W
R265	1-215-477-00	CARBON MELF	220K	5%	1/5W
R266	1-249-429-11	CARBON MELF	10K	5%	1/5W
R267	1-215-477-00	CARBON MELF	220K	5%	1/5W
R270	1-215-477-00	CARBON MELF	220K	5%	1/5W
R271	1-215-485-00	CARBON MELF	470K	5%	1/5W
R272	1-215-485-00	CARBON MELF	470K	5%	1/5W
R307	1-249-441-11	CARBON MELF	100K	5%	1/5W
R309	1-249-424-11	CARBON MELF	3.9K	5%	1/5W
R311	1-249-436-11	CARBON MELF	39K	5%	1/5W
R312	1-249-417-11	CARBON MELF	1K	5%	1/5W
R313	1-249-429-11	CARBON MELF	10K	5%	1/5W
R316	1-249-441-11	CARBON MELF	100K	5%	1/5W
R317	1-249-441-11	CARBON MELF	100K	5%	1/5W
R321	1-249-434-11	CARBON MELF	27K	5%	1/5W
R322	1-249-431-11	CARBON MELF	15K	5%	1/5W
R323	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R324	1-249-441-11	CARBON MELF	100K	5%	1/5W
R325	1-249-441-11	CARBON MELF	100K	5%	1/5W
R326	1-249-441-11	CARBON MELF	100K	5%	1/5W
R327	1-249-441-11	CARBON MELF	100K	5%	1/5W
R328	1-249-437-11	CARBON MELF	47K	5%	1/5W
R329	1-249-417-11	CARBON MELF	1K	5%	1/5W
R330	1-215-493-00	CARBON MELF	1M	5%	1/5W
R331	1-215-477-00	CARBON MELF	220K	5%	1/5W
R340	1-249-441-11	CARBON MELF	100K	5%	1/5W
R371	1-215-485-00	CARBON MELF	470K	5%	1/5W
R381	1-249-430-11	CARBON MELF	12K	5%	1/5W
R382	1-249-430-11	CARBON MELF	12K	5%	1/5W
R383	1-249-430-11	CARBON MELF	12K	5%	1/5W
R386	1-249-430-11	CARBON MELF	12K	5%	1/5W
R421	1-249-429-11	CARBON MELF	10K	5%	1/5W
R422	1-249-437-11	CARBON MELF	47K	5%	1/5W
R431	1-215-485-00	CARBON MELF	470K	5%	1/5W
R432	1-215-485-00	CARBON MELF	470K	5%	1/5W
R433	1-215-485-00	CARBON MELF	470K	5%	1/5W
R434	1-215-485-00	CARBON MELF	470K	5%	1/5W
R435	1-215-493-00	CARBON MELF	1M	5%	1/5W
R450	1-249-429-11	CARBON MELF	10K	5%	1/5W

Ref.No.	Part No.	Description			
R451	1-249-433-11	CARBON MELF	22K	5%	1/5W
R452	1-249-429-11	CARBON MELF	10K	5%	1/5W
R453	1-249-433-11	CARBON MELF	22K	5%	1/5W
R454	1-249-429-11	CARBON MELF	10K	5%	1/5W
R462	1-249-429-11	CARBON MELF	10K	5%	1/5W
R463	1-249-429-11	CARBON MELF	10K	5%	1/5W
R464	1-249-408-11	CARBON MELF	180	5%	1/5W
R465	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R466	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R467	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R468	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R469	1-249-425-11	CARBON MELF	4.7K	5%	1/5W
R478	1-249-417-11	CARBON MELF	1K	5%	1/5W
R479	1-249-433-11	CARBON MELF	22K	5%	1/5W
R481	1-249-437-11	CARBON MELF	47K	5%	1/5W
R482	1-249-417-11	CARBON MELF	1K	5%	1/5W
R483	1-249-437-11	CARBON MELF	47K	5%	1/5W
R484	1-249-417-11	CARBON MELF	1K	5%	1/5W
R485	1-249-437-11	CARBON MELF	47K	5%	1/5W
R486	1-249-429-11	CARBON MELF	10K	5%	1/5W
R501	1-215-485-00	CARBON MELF	470K	5%	1/5W
R502	1-249-413-11	CARBON MELF	470	5%	1/5W
R503	1-249-429-11	CARBON MELF	10K	5%	1/5W
R504	1-249-429-11	CARBON MELF	10K	5%	1/5W
R505	1-249-429-11	CARBON MELF	10K	5%	1/5W
R506	1-249-429-11	CARBON MELF	10K	5%	1/5W
R507	1-249-433-11	CARBON MELF	22K	5%	1/5W
R508	1-249-433-11	CARBON MELF	22K	5%	1/5W
R509	1-249-429-11	CARBON MELF	10K	5%	1/5W
R510	1-249-429-11	CARBON MELF	10K	5%	1/5W
R511	1-249-429-11	CARBON MELF	10K	5%	1/5W
R512	1-249-429-11	CARBON MELF	10K	5%	1/5W
R513	1-249-429-11	CARBON MELF	10K	5%	1/5W
R514	1-249-429-11	CARBON MELF	10K	5%	1/5W
R515	1-249-437-11	CARBON MELF	47K	5%	1/5W
R516	1-249-429-11	CARBON MELF	10K	5%	1/5W
R517	1-247-885-00	CARBON MELF	180K	5%	1/5W
R518	1-249-035-00	CARBON MELF	680	5%	1/5W
R519	1-249-429-11	CARBON MELF	10K	5%	1/5W
R520	1-249-441-11	CARBON MELF	100K	5%	1/5W
R521	1-249-422-11	CARBON MELF	2.7K	5%	1/5W
R522	1-249-429-11	CARBON MELF	10K	5%	1/5W
R524	1-215-493-00	CARBON MELF	1M	5%	1/5W
R525	1-249-441-11	CARBON MELF	100K	5%	1/5W

Ref.No.	Part No.	Description			
R531	1-215-493-00	CARBON MELF	1M	5%	1/5W
R532	1-215-493-00	CARBON MELF	1M	5%	1/5W
R534	1-249-437-11	CARBON MELF	47K	5%	1/5W
R535	1-249-429-11	CARBON MELF	10K	5%	1/5W
R601	1-249-426-11	CARBON MELF	5.6K	5%	1/5W
R602	1-249-413-11	CARBON MELF	470	5%	1/5W
R603	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R604	1-249-429-11	CARBON MELF	10K	5%	1/5W
R605	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R606	1-249-429-11	CARBON MELF	10K	5%	1/5W
R630	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R650	1-249-429-11	CARBON MELF	10K	5%	1/5W
R652	1-249-441-11	CARBON MELF	100K	5%	1/5W
R671	1-249-417-11	CARBON MELF	1K	5%	1/5W
R673	1-249-422-11	CARBON MELF	2.7K	5%	1/5W
R674	1-249-426-11	CARBON MELF	5.6K	5%	1/5W
R675	1-249-417-11	CARBON MELF	1K	5%	1/5W
R677	1-249-411-11	CARBON MELF	330	5%	1/5W
R678	1-249-426-11	CARBON MELF	5.6K	5%	1/5W
R679	1-249-430-11	CARBON MELF	12K	5%	1/5W
R691	1-249-390-11	CARBON MELF	5.6	5%	1/5W
R692	1-249-390-11	CARBON MELF	5.6	5%	1/5W
R701	1-249-429-11	CARBON MELF	10K	5%	1/5W
R702	1-249-429-11	CARBON MELF	10K	5%	1/5W
R703	1-249-429-11	CARBON MELF	10K	5%	1/5W
R704	1-249-429-11	CARBON MELF	10K	5%	1/5W
R705	1-249-063-11	CARBON MELF	150K	5%	1/5W
R802	1-215-493-00	CARBON MELF	1M	5%	1/5W
R803	1-247-903-00	CARBON	1M	5%	1/4W
R804	1-249-437-11	CARBON MELF	47K	5%	1/5W
R805	1-249-417-11	CARBON MELF	1K	5%	1/5W
R807	1-249-417-11	CARBON MELF	1K	5%	1/5W
R808	1-249-417-11	CARBON MELF	1K	5%	1/5W
R809	1-249-417-11	CARBON MELF	1K	5%	1/5W
R901	1-249-429-11	CARBON MELF	10K	5%	1/5W
R902	1-249-420-11	CARBON MELF	1.8K	5%	1/5W
R903	1-249-419-11	CARBON MELF	1.5K	5%	1/5W
R904	1-249-436-11	CARBON MELF	39K	5%	1/5W
R905	1-249-437-11	CARBON MELF	47K	5%	1/5W
R906	1-249-420-11	CARBON MELF	1.8K	5%	1/5W
R908	1-249-420-11	CARBON MELF	1.8K	5%	1/5W
R980	1-249-429-11	CARBON MELF	10K	5%	1/5W
R981	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R982	1-249-421-11	CARBON MELF	2.2K	5%	1/5W
R983	1-249-421-11	CARBON MELF	2.2K	5%	1/5W

Ref.No.	Part No.	Description
R984	1-249-421-11	CARBON MELF 2.2K 5% 1/5W
R985	1-249-424-11	CARBON MELF 3.9K 5% 1/5W
R986	1-249-421-11	CARBON MELF 2.2K 5% 1/5W
RV501	1-237-193-11	RES, ADJ, CARBON 10K (LCD)
S701	1-554-813-31	SWITCH, KEY BOARD (LEVEL -)
S702	1-554-813-31	SWITCH, KEY BOARD (LEVEL +)
S703	1-554-813-31	SWITCH, KEY BOARD (FADER R)
S704	1-554-813-31	SWITCH, KEY BOARD (FADER F)
S705	1-554-813-31	SWITCH, KEY BOARD (DISPLAY A)
S706	1-554-813-31	SWITCH, KEY BOARD (DISPLAY B)
S707	1-554-813-31	SWITCH, KEY BOARD (BASS)
S708	1-554-813-31	SWITCH, KEY BOARD (SENS)
S709	1-554-813-31	SWITCH, KEY BOARD (4)
S710	1-554-813-31	SWITCH, KEY BOARD (POPS)
S711	1-554-813-31	SWITCH, KEY BOARD (ROCK)
S712	1-554-813-31	SWITCH, KEY BOARD (BGM)
S713	1-554-813-31	SWITCH, KEY BOARD (1)
S714	1-554-813-31	SWITCH, KEY BOARD (2)
S715	1-554-813-31	SWITCH, KEY BOARD (3)
S716	1-554-813-31	SWITCH, KEY BOARD (MEMORY)
S717	1-554-813-31	SWITCH, KEY BOARD (EQ)
SW001	1-570-875-11	SWITCH, SLIDE (LEVEL LOW/SONY STD)
T630	1-448-886-11	TRANSFORMER, DC-DC CONVERTER
TH671	1-800-944-00	THERMISTOR TH-4700
X501	1-567-839-11	VIBRATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

1-556-167-00	CORD, CONNECTION
3-310-655-01	SUPPORT (ND), FITTING
3-315-736-21	BRACKET, NEW D
3-315-746-01	STOPPER (SMALL)
3-320-636-01	BAG (C), PROTECTION
3-331-323-01	CUSHION (J)
3-339-927-01	SPACER
*3-342-456-01	INDIVIDUAL CARTON
3-559-936-00	COVER
3-764-726-11	INSTRUCTION
*3-764-869-11	(E)...INSTRUCTION, DBP CAUTION
3-765-929-21	(US).....MANUAL, INSTRUCTION
3-765-929-15	(Canadian,E)...MANUAL, INSTRUCTION
7-682-261-09	SCREW +K 4X8
X-3315-702-1	SCREW ASSY (25MM), FITTING

9-952-723-13
(with 9-952-723-81 including 9-952-723-91)

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